- At each RMS well, determine the dominant beneficial use for that monitoring well based on the classification of wells within one mile of the RMS well.
    - If the majority of the beneficial use (greater than 50% the wells within a determined area) is agricultural and there are no public water systems (including schools) the minimum threshold would be a host of agricultural water quality constituents.
    - If an RMS well is located within an urban area, within one mile of a public water system, which includes schools, or the dominant beneficial use (greater than 50% of the wells within the determined area) is drinking water, then the minimum threshold would be set at the MCL for drinking water.
    - In cases where both of the above criteria are found to be true, the minimum thresholds would be established for both drinking water MCLs and Ag WQO's and minimum thresholds would be set at the most stringent of the two when considering common constituents.
    - If drinking water MCLs or Ag WQOs were historically exceeded at an RMS well or found not be a result of implementation of a GSP, the GSA will coordinate with the responsible regulatory agency to prevent GSA SGMA activities from further degrading groundwater quality.

4.4.3.2 *Relationship to Other Sustainability Indicators (§354.28(b)(2))*

Groundwater quality is directly related to the sustainability indicator for change in groundwater storage and lowering of groundwater levels.

4.4.3.3 *Relationship to Adjacent Basins (§354.28(b)(3))*

The Minimum Thresholds for groundwater quality are based upon MCL and WQO established by the State for the beneficial uses and user within the Central Valley of California. Implementation of the projects and management actions within the GSA that may impact degraded groundwater quality will be consistent with the requirements established by the State and therefore would not adversely impact adjacent basins.

4.4.3.4 *Potential Effects (§354.28(b)(4))*

The Minimum Thresholds for the degrading of groundwater quality is not anticipated to produce undesirable results for agricultural, municipal, and industrial beneficial uses. If beneficial uses and users of groundwater have their groundwater quality impacted by GSA actions, each GSA will adopt a Mitigation Program or Programs consistent with the Framework attached hereto as Attachment 7.

4.4.3.5 *Relationship with Federal, State, and Local Standards (§354.28(b)(5))*

The minimum thresholds established are based on the Federal, State and Local Standards for groundwater quality maximum contaminant level (MCL) for drinking water or Agricultural Water

Quality Objective (WQO) based on the beneficial use or user of the groundwater. Each groundwater quality RMS has been designated as representative of drinking water beneficial use, agricultural beneficial use, or both using the criteria defined in Section 4.4.3.1.

4.4.3.6 *Measurement of Groundwater Quality Relative to Minimum Thresholds (§354.28(b)(6))*

Groundwater quality will be measured at the representative monitoring sites and according to the monitoring schedule described in **Attachment 1**. The status of groundwater quality relative to the Minimum Thresholds will be reported in Annual Reports and Five-Year Reports.

4.4.4 Land Subsidence Minimum Thresholds

4.4.4.1 *Criteria Used to Establish Minimum Thresholds (§354.28(b)(1))*

Minimum Thresholds for land subsidence were established throughout the Tule Subbasin based on the best available data collected to date and groundwater model analysis, as described in Section 4.3.4.2.

Groundwater flow model analysis forecast as much as three feet of additional land subsidence at some locations of the FKC during the transition period from 2020 to 2040 (see Attachment 3; Figure 44). Through coordination with the Friant Water Authority staff and consultants, this value became the basis for engineering design modifications to restore canal flow capacity to its original condition. Land subsidence along the canal exceeding three feet was determined to be an undesirable result because it would be beyond what the engineering design could accommodate to restore the flow capacity to its original condition and what the parties to the FWA/ETGSA/Pixley GSA settlement agreement agreed to mitigate. Accordingly, the minimum threshold for land subsidence along the FKC was established at three feet of additional land subsidence after January 2020.

In other areas of the Tule Subbasin, apart from the FKC, the rate and extent of land subsidence forecast by the groundwater flow model for the 2020 to 2040 transition period was the basis for establishing minimum thresholds (see Attachment 6). In most areas of the Tule Subbasin, the GSAs determined that the forecasted land subsidence during the transition period, which was of a similar magnitude to what had been historically measured, was not anticipated to result in undesirable results to land uses or critical infrastructure because no undesirable results had previously been reported as a result of historical land subsidence in those areas. Thus, the maximum amount of land subsidence forecast during the transition period from 2020 to 2040 using the calibrated groundwater flow model is the basis for the land subsidence minimum thresholds throughout the Subbasin.

4.4.4.2 *Relationship to Other Sustainability Indicators (§354.28(b)(2))*

Land subsidence is directly related to the sustainability indicators for lowered groundwater levels and reductions in groundwater in storage. By maintaining groundwater levels above the Minimum Thresholds, undesirable results associated with land subsidence should be minimized.

4.4.4.3 Relationship to Adjacent Basins (§354.28(b)(3))

The Minimum Thresholds described in each GSA's GSP have been informed through an analysis of potential future land subsidence in the Subbasin using a numerical groundwater flow model that incorporates future planned projects and management actions of each of the GSAs. Implementation of the projects and management actions, including the mitigation program by participating GSAs, are predicted to stabilize groundwater levels at the Tule Subbasin boundaries and areas immediately adjacent to the Subbasin, as long as the neighboring basins are successful in implementing their respective projects and management actions. Stabilizing groundwater levels will have the effect of minimizing land subsidence.

4.4.4.4 Potential Effects (§354.28(b)(4))

Regional land subsidence could result in impacts to gravity-driven water conveyance and other infrastructure. Land uses vulnerable to regional land subsidence are considered high priority and include:

- Gravity-Driven Water Conveyance
  - Canals
  - Turnouts
  - Stream Channels
  - Water Delivery Pipelines
  - Basins
- Wells
- Flood Control

The Tule Subbasin GSAs have developed a mitigation framework for each GSA to utilize to address claims of impact that can be attributed to land subsidence (see Attachment 7). The ETGSA and Pixley GSA have entered into a settlement agreement with the FWA to mitigate the cost to repair sections of the FKC within ETGSA associated with land subsidence that occurs during the transition period from 2020 to 2040 (see ETGSA and Pixley GSA GSPs).

Differential land subsidence and associated damage to infrastructure has not been reported in the Tule Subbasin and is not anticipated to result in adverse impacts to infrastructure or land uses. These land uses are considered low priority, as it relates to land subsidence impacts, and include:

- Highways and Bridges
- Railroads
- Other Pipelines
- Wastewater Collection
- Utilities
- Buildings

Claims of impact related to land subsidence for these categories are more likely to come from public utilities, municipalities, or state agencies whereas each GSA will adopt a Mitigation Program or Programs consistent with the Framework attached hereto as Attachment 7.

4.4.4.5 Relationship with Federal, State, and Local Standards (§354.28(b)(5))

There are no Federal, State or local standards specific to addressing land subsidence in the Tule Subbasin.

4.4.4.6 Measurement of Land Subsidence Relative to Minimum Thresholds (§354.28(b)(6))

Land elevations will be measured at the representative monitoring sites and according to the monitoring schedule described in **Attachment 1**. Additional monitoring, above and beyond that specified in Attachment 1, will be implemented for the ETGSA Land Subsidence Management Area along the FKC. The status of land subsidence relative to the Minimum Thresholds will be reported in Annual Reports and Five-Year Reports.

4.5 Measurable Objectives (Reg. § 354.30)

Measurable Objectives, including interim milestones in increments of five years, will be quantified at each RMS for each applicable sustainability indicator, defined as the numeric value in 2040, to achieve the sustainability goal in 20-year of plan implementation. Each measurable objective and interim milestones will be defined and described separately by each GSA in the GSP.

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V. MONITORING PROTOCOLS, NETWORKS, AND IDENTIFICATION OF DATA GAPS (§§352.2, 354.32.)

5.1 Monitoring Network and Representative Monitoring (§§354.34-354.36)

The minimum monitoring network to be used to collect data in the Tule Subbasin is described in the Tule Subbasin Monitoring Plan (see **Attachment 1**). The types of data to be collected as part of the plan include:

□ Surface water flow □ Surface water quality □ Groundwater levels □ Groundwater quality □ Land surface elevation from Global Positioning System (GPS) stations □ Land surface elevation changes from satellite data □ Land subsidence data from extensometers

The monitoring plan ensures that the data collected within the Subbasin is of sufficient quality, frequency and distribution to provide meaningful results for evaluating changing conditions within the Subbasin and informing the decision-making process.

The minimum monitoring network identified in the Tule Subbasin Monitoring Plan is both flexible and iterative, allowing for the addition or subtraction of monitoring features, as necessary, and to accommodate changes in monitoring frequency and alternative methodologies, as appropriate. Any changes to the minimum monitoring network or monitoring protocols identified in **Attachment 1** shall be approved by the Tule Subbasin TAC.

Individual GSAs may include additional monitoring features, not specifically identified in the Tule Subbasin Monitoring Plan, for collecting data to include in their respective GSPs and Annual Reports. Any monitoring features utilized for the collection of data to be included in GSPs and Annual Reports that are not identified in the Tule Subbasin Monitoring Plan must meet the minimum design and construction requirements specified in Section 3 of this Coordination Agreement and the Tule Subbasin Monitoring Plan. Any monitoring features not in the Tule Subbasin Monitoring Plan that are to be used by a GSA to collect data for incorporation into GSPs or Annual Reports will be shared with the Tule Subbasin TAC.

5.1.1 Procedures for Collecting the Data

The Tule Subbasin Monitoring Plan (**Attachment 1**) includes detailed procedures for the collection of surface water flow data, groundwater elevation data, and land surface elevation data. Groundwater quality data will be coordinated with and through the Irrigated Lands Regulatory Program and the existing coalitions. The data collection procedures will ensure that the data collected have the level of accuracy and precision necessary for evaluating conditions relative to minimum thresholds, estimating change in groundwater storage as required for Annual Reports, and measuring progress toward achieving sustainability. The data collection processes and procedures shall apply to monitoring features specifically identified in the Tule Subbasin Monitoring Plan as well as any additional monitoring features utilized for the collection of data by individual GSAs.

5.1.2 Entities Responsible for Data Collection

All data collection work, as specified in the Tule Subbasin Monitoring Plan (**Attachment 1**)

will be performed by each GSA through individuals working under the direct supervision of a California Registered Professional Civil Engineer, Professional Geologist, or Certified Hydrogeologist and who meet the minimum qualifications and training requirements required by the Tule Subbasin TAC's technical consultant. The collection of groundwater quality data will be coordinated with and through the Irrigated Lands Regulatory Program and the existing coalitions. All data will be collected in accordance with the protocols specified in **Attachment 1**.

Nothing in this Agreement prevents multiple GSAs from using the same consultant. It is understood by and among the Parties that there will be individual GSA-specific data that can be collected either through the Tule Subbasin TAC's technical consultant or through the consultant/staff hired by that GSA. The goal is that the data collection be done following the same processes and procedures throughout the Tule Subbasin. If a GSA prefers to use the technical consultant hired by the Tule Subbasin TAC for the purposes of collecting information beyond what is required for Tule Subbasin Monitoring Plan, then that GSA shall pay for the consultant's fees and costs separately and above what the Tule Subbasin GSAs agree to cost share. In the event that a GSA hires its own consultant for site or GSA-specific data collection, such data shall be shared through the data sharing provisions of this Agreement.

All data collected by the GSAs shall be submitted to the Tule Subbasin TAC's technical consultant in accordance with the schedule described in Section 4.1.3 for QA/QC and entry into the Tule Subbasin Water Management Database (see Section 4.3).

5.1.3 How and When Data are Distributed to the GSAs

The complete Tule Subbasin Water Management Database will be available to authorized representatives as set forth by the GSAs of the Tule Subbasin GSAs at any time upon request.

The schedule to distribute data to the individual GSAs for preparation of Annual Reports has been prepared to enable the Tule Subbasin TAC to submit the compiled Annual Reports by the SGMA reporting deadline of April 1 following a water year. As per Groundwater Sustainability Plan Regulations Section 356.2, Annual Reports will include data and analyses for the preceding water year (October 1 through September 30). The distribution of data to the GSAs for the preparation of Annual Reports will be in accordance with the following schedule:

- The Tule Subbasin TAC's technical consultant will update the database between October 1 and January 30 following a subject water year.
- Individual GSAs will be required to submit groundwater extractions (i.e. pumpage) to the technical consultant by January 1 following a subject water year.
- Following Quality Assurance/Quality Control checks by the technical consultant, the previous water year's data will be submitted to each GSA by February 1 so the

GSAs can prepare their respective Annual Reports. The data will be formatted for easy incorporation into Annual Reports and distributed electronically. Annual reports will be submitted to the Tule Subbasin TAC for compilation by March 1 following the preceding water year. All Annual Reports will be submitted to the California Department of Water Resources by April 1 following the preceding water year.

5.2 Assessment and Improvement of Monitoring Network and Identification of Data Gaps (§354.38.)

The Tule Subbasin TAC will periodically evaluate the monitoring network in **Attachment 1** to determine if there are data gaps that could affect the ability of the Subbasin to meet its sustainability goals. Current data gaps are identified in **Attachment 1**. Every five years, the Tule Subbasin TAC will provide an evaluation of data gaps in the five-year assessment, including steps to be taken to address data gaps before the next five-year assessment.

5.3 Data Management System (DMS) (§357.4(e))

Efficient data management will be a critical to ensure that each GSA can access the data needed to prepare their respective Annual Reports in a timely manner and to ensure that the Tule Subbasin TAC can meet deadlines for submittal of the coordinated reports. The Monitoring Plan, **Attachment 1**, describes the Tule Subbasin Water Management Database, the procedures for updating and maintaining the database, and protocols for database security, file access and reporting. Data to be managed will include:

A. Historical data used as a basis for preliminary estimates of the Water Budget and Sustainable Yield of the Tule Subbasin.
B. Data to be collected in accordance with the Tule Subbasin Monitoring Plan (**Attachment 1**).

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VI. IMPLEMENTATION OF GSPS (§357.4(c))

Pursuant to 23 Cal. Code Regs. §357.24(c), the coordination agreement shall explain how the GSPs when implemented together satisfy the requirements of SGMA and are in substantial compliance with its regulations. SGMA requires the development and implementation of GSPs by GSAs to achieve sustainable groundwater management by 2040.

Throughout this Coordination Agreement, the Tule Subbasin GSAs have agreed upon various data and methodologies critical to understanding the hydrogeology of the Subbasin, and addressing and understanding what remedies are available to avoid undesirable results.

The GSAs within the Tule Subbasin will work together to implement their respective GSPs within the Tule Subbasin. The Tule Subbasin TAC, the technical advisory committee composed of representatives from each GSA, has developed Subbasin-wide data and methodologies for each of the following items, and made them available to each GSA to adopt and utilize in the development of its respective GSP:

- Groundwater elevation data.
- Groundwater extraction data.
- Surface water supply.
- Total water use.
- Change in groundwater storage.
- Water budget.
- Sustainable yield.

The GSAs understand there is local, site-specific data particular to each GSA which each GSA may utilize in the development of its respective GSP in addition to the Subbasin-wide data. If an individual GSA has identified monitoring features for use in collecting data specific to its jurisdictional area and the features are not included in Section 3 or **Attachment 1** of this Coordination Agreement, then the GSA can incorporate the features and data into its GSP upon confirming that those particular monitoring features meet the minimum criteria specified in Section 3 and that the data has been collected in accordance with this Coordination Agreement.

Each GSA shall submit its respective GSP, and any updates thereto, to the Tule Subbasin TAC so that the other Tule Subbasin GSAs may review and comment prior to documents being submitted to DWR. Each GSA shall comply with 23 Cal. Code Regs. §354.10, regarding comments received on the GSP, and such GSP shall be made available on the GSA's website.

Each GSA acknowledges and agrees that it is responsible to ensure that its GSP complies with the statutory requirements of SGMA. The GSAs further acknowledge the obligation for each GSA to coordinate the implementation of their respective GSPs in order to, collectively, achieve the Sustainability Goal for the Subbasin, as required by SGMA.

Additionally, to better implement and refine the projects and management actions adopted in their respective GSPs, the GSAs are committed to work together on developing and maintaining a data management system and are implementing quality control and quality assurance measures to collect reliable GSA-specific and Subbasin-wide data to ensure Subbasin-wide Sustainability Goal is

achieved.

The Tule Subbasin GSAs are committed to implementing their respective projects and management actions set forth in their respective GSPs for the purpose of reaching sustainability for the Subbasin by 2040. The GSAs are also committed to further refine and update their projects, management actions and GSPs in accordance with SGMA as more and better data becomes available.

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VII. TULE SUBBASIN ORGANIZATIONAL STRUCTURE

7.1 Tule Subbasin Technical Advisory Committee

The Tule Subbasin TAC was previously formed under a Memorandum of Agreement executed by all Tule Subbasin GSAs. The Parties agree to the continued existence of the Tule Subbasin TAC pursuant to the terms below. The Tule Subbasin TAC is an advisory committee only and has no authority or power to bind any individual GSA to any recommendation or action item taken by its members.

Nothing in this Agreement is intended to affect the statutory powers granted under SGMA, or any other applicable law, to the Tule Subbasin GSAs. Each Tule Subbasin GSA shall be solely responsible for the adoption and enforcement of any ordinances, bylaws, or other legally enforceable actions taken within their respective GSA boundaries to implement SGMA, including, but not limited to, the preparation of the GSP applicable within their GSA boundaries. Each GSA agrees that as required by this Coordination Agreement, they shall utilize the same data and methodologies contained in this Coordination Agreement. The Parties understand there will be basin-wide data, in addition to certain local site-specific data collected and/or utilized by each GSA.

7.1.1 Members and Voting

A Tule Subbasin TAC shall be formed with one (1) representative appointed from each GSA, as well as one (1) alternate from each GSA. The Subbasin TAC shall make technical recommendations regarding the Coordination Agreement and other Tule Subbasin related SGMA compliance issues to each GSA. The Tule Subbasin TAC shall meet as necessary. Each GSA shall be entitled to one (1) vote. Recommendations to each GSA shall only be made upon consensus of the Tule Subbasin TAC. Should consensus not be reached, the votes shall be reported to each GSA Board for further direction. A quorum shall exist when five of the seven GSAs have representatives in attendance. The chairperson and secretary will not hold any separate voting rights on the Tule Subbasin TAC.

7.1.2 Consultants

The Parties agree that the Tule Subbasin TAC should obtain the services of consultants to facilitate the collection of data and the submission of information to the Tule Subbasin GSAs. Prior to hiring consultants, or approving scopes of work, the TAC shall obtain approval from the Tule Subbasin GSAs.

7.1.3 Legal Services

The Tule Subbasin TAC shall not retain independent legal services, unless agreed upon by all Parties hereto. Each Party shall be responsible for any legal fees incurred by its own counsel in the course of performing any legal work related to Subbasin matters.

7.1.4 Chairman and Secretary

A Chairman and Secretary shall be appointed to serve the Tule Subbasin TAC. The Chairperson shall be responsible for managing all Tule Subbasin TAC meetings, preparing agenda

materials, managing consultants hired by the Tule Subbasin TAC, and coordinating the delivery of information between GSAs and Tule Subbasin TAC consultants. The Secretary shall be responsible for distributing Tule Subbasin TAC agenda materials to all Tule Subbasin GSAs and to all interested parties that request to be notified of Tule Subbasin TAC meetings, as well as ensuring compliance with all applicable legal requirements, including, but not limited to, the Ralph M. Brown Act. The Secretary shall also be responsible for record keeping of the Tule Subbasin TAC group, maintaining minutes of Tule Subbasin TAC meetings, maintaining copies of all executed agreements, maintaining copies of documents produced by consultants, and providing such information to individual Tule Subbasin GSAs upon request. The appointed Chairperson or Secretary may meet with Tule Subbasin GSAs or GSA member agency employees as necessary.

7.1.5 Meetings

All meetings shall be subject to the Ralph M. Brown Act. The Chairman and Secretary shall be responsible for ensuring compliance. Interested parties shall be provided an opportunity to comment on Coordination Agreement issues. Parties acknowledge the Tule Subbasin TAC duties may include public outreach.

7.1.6 Cost Sharing and Governance

Parties shall share on an equitable basis the costs related to the preparation of the data required for the Coordination Agreement to be drafted. Costs shall be allocated between GSAs based on the number of acres within a GSA.

Each Party to this Agreement shall be responsible for their respective share of costs based on their proportionate acreage within the Tule Subbasin. Through a separate agreement, the Tule Subbasin GSAs have appointed a fiscal agent and that fiscal agent shall have authority to enter into any contract necessary to assist with the preparation of the Coordination Agreement, subject to the direction and authorization of the Tule Subbasin TAC. The fiscal agent shall be responsible for invoicing the respective GSAs and for providing an accounting of all funds received and spent on behalf of the GSAs. The fiscal agent shall attend all Tule Subbasin TAC meetings but has no separate voting rights on the Tule Subbasin TAC.

The Tule Subbasin TAC shall annually prepare a schedule, scope of work, and budget of items required for the Coordination Agreement, which shall identify the estimated expenses and the estimated portions each respective Tule Subbasin GSA will be expected to be responsible for payment. This information shall be submitted to the GSAs for review and approval. The Tule Subbasin TAC may request funds under the approved budget from the GSAs as needed to reimburse the GSA's fiscal agent and may also request budget amendments.

The Parties agree that if grant funds become available for the Coordination Agreement components, then the Parties shall utilize grant funds to pay for those costs. The Parties agree to coordinate specific grant application requests by separate agreement. The Parties agree that grant funds shall be utilized based on the grant application budget and that if any grant funds are available for distribution to the GSAs, then the remaining grant funds shall be distributed based on GSA acreage within the Tule Subbasin.

7.1.7 Procedures for Timely Exchange of Information (§357.4(b)(2))

7.1.7.1 *Exchange of Information*

Pursuant to 23 Cal. Code Regs. §357.4(b)(2), the GSAs acknowledge and recognize that for this Coordination Agreement to be effective in the enhancement of the goals of basin-wide groundwater sustainability and compliance with the SGMA and the basin level coordinating and reporting regulations, the GSAs will have an affirmative obligation to exchange certain minimally necessary information among and between the other GSA Parties. Likewise, the GSA Parties acknowledge and recognize that individual GSA Parties, in providing certain information, and in particular certain raw data, may contend that limitations apply in the sharing and other dissemination of certain types of said information, which may subject the individual GSA Party to certain duties regarding non-disclosure and privacy restrictions and protections.

7.1.7.2 *Procedure Governing the Exchange of Information*

The GSAs may exchange information through collaboration and/or informal requests made at the Tule Subbasin TAC. To the extent it is necessary to make a written request for information to another GSA, each GSA shall designate a representative to respond to information requests and provide the name and contact information of the designee to the Tule Subbasin TAC. Requests may be communicated in writing and transmitted in person or by mail, facsimile machine or other electronic means to the appropriate representative as named in this Agreement.

Nothing in this Agreement shall be construed to prohibit any Party from voluntarily exchanging information with any other Party by any other mechanism separate from the Tule Subbasin TAC.

7.1.8 Procedures for Resolving Disputes Dispute Resolution (§§357.4(b)(2), 357.4(h))

The Parties agree that all disputes under this Coordination Agreement that concern the applicability and requirements of SGMA by or between GSAs within the Tule Subbasin, shall be handled under the terms of this Agreement. Any GSA may choose to initiate a dispute resolution process by serving written notice to the remaining GSAs of the following: (1) identification of the conflict; (2) description of how the conflict may negatively impact the sustainability of the Tule Subbasin; and (3) a proposal for one or more resolutions. The Parties agree to designate representatives to meet and confer with each other within thirty (30) days of the date such notice is given and said representatives shall then meet within a reasonable time to address all issues identified in the notice. Should the representatives be unable to reach a resolution within ninety (90) days of the written notice, the Parties shall enter into informal mediation in front of a mutually agreeable mediator. After attempting to settle or resolve a dispute or disagreement through informal resolution and mediation, as described above, nothing within this Agreement shall prevent the Parties from pursuing legal action. The resolution of any dispute or claim related to a water right alleged by a Party is outside the scope contemplated in this Section 7.1.8 and the Coordination Agreement.

7.2 Amendments to this Coordination Agreement

This Coordination Agreement shall become effective on the dates executed by all Parties and shall remain in effect until revised or replaced by a subsequent agreement. This Agreement may be amended upon the mutual written agreement of all the Parties. Pursuant to 23 Cal. Code Regs. §357.4(i), this Coordination Agreement shall be reviewed as part of the five-year assessment, revised if necessary, and executed by all parties.

7.3 Construction

This Agreement is for the sole benefit of the Parties and shall not be construed as granting rights to or imposing obligations on any person other than the Parties.

7.4 Good Faith

Each Party shall use its best efforts and work in good faith for the expeditious completion of the purposes and goals of this Agreement and the satisfactory performance of its terms.

7.5 Execution

This Agreement may be executed in counterparts and the signed counterparts shall constitute a single instrument. The signatories to this Agreement represent that they have the authority to sign this agreement and to bind the Party for whom they are signing.

7.6 Third Party Beneficiaries

This Agreement shall not create any right of interest in any non-Party or in any member of the public as a third-party beneficiary.

7.7 Notices

All notices, requests, demands or other communications required or permitted under this Agreement shall be in writing unless provided otherwise in this Agreement, and shall be deemed to have been duly given and received on: (i) the date of service if personally served or served by electronic mail or facsimile transmission on the Party to whom notice is to be given at the address(es) below; (ii) on the first day after mailing, if mailed by Federal Express, U.S. Express Mail, or other similar overnight courier service; or (iii) on the third day after mailing if mailed to the Party to whom notice is to be given by first class mail, registered certified as follows:

Alpaugh Groundwater Sustainability Agency
Attn: Bruce Howarth
P.O. Box 129 Alpaugh, CA 93201

Delano-Earlimart Irrigation District Groundwater Sustainability Agency
Attn: Eric Quinley
14181 Avenue 24 Delano, CA 93215

Eastern Tule Groundwater Sustainability Agency
Attn: Rogelio Caudillo
881 W. Morton Avenue, Suite D Porterville, CA 93257

Lower Tule River Irrigation District GSA
Attn: Eric Limas
357 E. Olive Avenue Tipton, CA 93272

Pixley Irrigation District GSA
Attn: Eric Limas
357 E. Olive Avenue Tipton, CA 93272

Tri-County Water Authority GSA
Attn: Deanna Jackson
944 Whitley Avenue Suite E Corcoran, CA 93212

County of Tulare
c/o Denise England
County Administration Building
2800 W. Burrel Avenue Visalia, California 93291

7.8 No Waiver; No Admission

Nothing in this Coordination Agreement is intended to modify the water rights of any Party or of any Person (as that term is defined under Section 19 of the Water Code). Nothing in this Coordination Agreement shall be construed as an admission by any Party regarding any subject matter of this Coordination Agreement, including without limitation any water right or priority of any water right that is claimed by a Party or any Person. Nor shall this Coordination Agreement in any way be construed to represent an admission by a Party with respect to the subject or sufficiency of another Party's claim to any water or water right or priority or defenses thereto, or to establish a standard for the purposes of the determining the respective liability of any Party or Person, except to the extent otherwise specified by law. Nothing in this Coordination Agreement shall be construed as a waiver by any Party of its election to at any time assert a legal claim or argument as to water, water right or any subject matter of this Coordination Agreement or defenses thereto. The Parties hereby agree that this Coordination Agreement, to the fullest extent permitted by law, preserves the water rights of each of the Parties as they may exist as of the effective date of this Coordination Agreement or at any time thereafter. Any dispute or claim arising out of or in any way related to a water right alleged by a Party shall be separately resolved before the appropriate judicial, administrative or enforcement body with proper jurisdiction and is specifically excluded from the dispute resolution procedures set forth under this Coordination Agreement, including without limitation under Section 7.1.8.

7.9 It is understood and agreed that this Coordination Agreement supersedes that certain "Memorandum of Understanding to Develop and Implement a Coordination Agreement" and all oral agreements and negotiations between the Parties relating to the subject matter hereof.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement to be effective as of the date noted below.

Alpaugh Groundwater Sustainability Agency	Date
Delano Earlimart Irrigation District GSA	7/21/22 Date
Eastern Tule Groundwater Sustainability Agency	Date
Lower Tule River Irrigation District GSA	Date
Pixley Irrigation District GSA	Date
Tri-County Water Authority GSA	Date
Tulare County GSA	Date

7.9 It is understood and agreed that this Coordination Agreement supersedes that certain "Memorandum of Understanding to Develop and Implement a Coordination Agreement" and all oral agreements and negotiations between the Parties relating to the subject matter hereof.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement to be effective as of the date noted below.

Alpaugh Groundwater Sustainability Agency	Date
Delano Earlimart Irrigation District GSA	Date
Eastern Tule Groundwater Sustainability Agency	7-18-22 Date
Lower Tule River Irrigation District GSA	Date
Pixley Irrigation District GSA	Date
Tri-County Water Authority GSA	Date
Tulare County GSA	Date

7.9 It is understood and agreed that this Coordination Agreement supersedes that certain "Memorandum of Understanding to Develop and Implement a Coordination Agreement" and all oral agreements and negotiations between the Parties relating to the subject matter hereof.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement to be effective as of the date noted below.

Alpaugh Groundwater Sustainability Agency	Date
Delano Earlimart Irrigation District GSA	Date
Eastern Tule Groundwater Sustainability Agency	Date
Lower Tule River Irrigation District GSA	7/19/2022 Date
Pixley Irrigation District GSA	7/21/2022 Date
Tri-County Water Authority GSA	Date
Tulare County GSA	Date

7.9 It is understood and agreed that this Coordination Agreement supersedes that certain "Memorandum of Understanding to Develop and Implement a Coordination Agreement" and all oral agreements and negotiations between the Parties relating to the subject matter hereof.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement to be effective as of the date noted below.

Alpaugh Groundwater Sustainability Agency	Date
Delano Earlimart Irrigation District GSA	Date
Eastern Tule Groundwater Sustainability Agency	Date
Lower Tule River Irrigation District GSA	Date
Pixley Irrigation District GSA	Date
Tri-County Water Authority GSA	July 21, 2022 Date
Tulare County GSA	Date

7.9 It is understood and agreed that this Coordination Agreement supersedes that certain "Memorandum of Understanding to Develop and Implement a Coordination Agreement" and all oral agreements and negotiations between the Parties relating to the subject matter hereof.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement to be effective as of the date noted below.

Alpaugh Groundwater Sustainability Agency	Date
Delano Earlimart Irrigation District GSA	Date
Eastern Tule Groundwater Sustainability Agency	Date
Lower Tule River Irrigation District GSA	Date
Pixley Irrigation District GSA	Date
Tri-County Water Authority GSA	Date
Tulare County GSA	7/19/2022 Date

Approved as to Form
Tulare County Counsel
/s/ AZaheen
Matter No. 20151121

7.9 It is understood and agreed that this Coordination Agreement supersedes that certain "Memorandum of Understanding to Develop and Implement a Coordination Agreement" and all oral agreements and negotiations between the Parties relating to the subject matter hereof.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement to be effective as of the date noted below.

Ronnie Magh — 07/25/22

Alpaugh Groundwater Sustainability Agency — Date

Delano Earlimart Irrigation District GSA — Date

Eastern Tule Groundwater Sustainability Agency — Date

Lower Tule River Irrigation District GSA — Date

Pixley Irrigation District GSA — Date

Tri-County Water Authority GSA — Date

Tulare County GSA — Date

TULE SUBBASIN COORDINATION AGREEMENT ATTACHMENT 1

Tule Subbasin Monitoring Plan

July 2022

Prepared for

Tule Subbasin Technical Advisory Committee

Prepared by

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Acronyms

GSP	Groundwater Sustainability Plan
SGMA	Sustainable Groundwater Management Act, California's framework for the recovery and ongoing management of groundwater basins. SGMA empowers local agencies to form Groundwater Sustainability Agencies (GSAs) to manage basins sustainably and requires those GSAs to adopt Groundwater Sustainability Plans (GSPs) for crucial groundwater basins in California.
DWR	Department of Water Resources
GSA	Groundwater Sustainability Agency
TAC	Technical Advisory Committee
TSMP	Tule Subbasin Monitoring Plan
DO	Dissolved Oxygen
EC	Electrical Conductivity
TDS	Total Dissolved Solids
QAPP	Quality Assurance Project Plan
USGS	United States Geological Society
USBR	United States Bureau of Reclamation
GPS	Global Positioning System
NGS	National Geodetic Survey

TRA	Tule River Association
ACOE	Army Core of Engineers
ILRP	Irrigated Lands Regulatory Program
DMS	Data Management System, an application with a database back-end that will track and manage the data of the end users as well as provide administrative
SQL	structured query language
End User/User	Person who will use the product, but not a member of staff, administration, or development team.
UI	User Interface, the part of the application that end users and staff interact with.

1.0 Background

This monitoring plan has been prepared to describe the monitoring features and monitoring methodologies to be used to collect the data to be included in Tule Subbasin Groundwater Sustainability Plans (GSPs) and annual reports, as required by the Sustainable Groundwater Management Act (SGMA). This plan is for the Tule Subbasin (see Figure A1-1), as described in California Department of Water Resources (DWR) Bulletin 118.[1] The Tule Subbasin is subdivided into six Groundwater Sustainability Agencies (GSAs), each with their own GSP.

As required by Section 10727.2 of the Water Code, each GSP must include:

> (d) Components relating to the following, as applicable to the basin:
>
> > (1) The monitoring and management of groundwater levels within the basin.
> >
> > (2) The monitoring and management of groundwater quality, groundwater quality degradation, inelastic land surface subsidence, and changes in surface flow and surface water quality that directly affect groundwater levels or quality or are caused by groundwater extraction in the basin.
> >
> > (3) Mitigation of overdraft.
> >
> > (4) How recharge areas identified in the plan substantially contribute to the replenishment of the basin.
> >
> > (5) A description of surface water supply used or available for use for groundwater recharge or in-lieu use.
>
> (e) A summary of the type of monitoring sites, type of measurements, and the frequency of monitoring for each location monitoring groundwater levels, groundwater quality, subsidence, streamflow, precipitation, evaporation, and tidal influence. The plan shall include a summary of monitoring information such as well depth, screened intervals, and aquifer zones monitored, and a summary of the type of well relied on for the information, including public, irrigation, domestic, industrial, and monitoring wells.
>
> (f) Monitoring protocols that are designed to detect changes in groundwater levels, groundwater quality, inelastic surface subsidence, for basins for which subsidence has been identified as a potential problem, and flow and quality of surface water that directly affect

[1] DWR, 2016. Final 2016 Bulletin 118 Groundwater Basin Boundaries shapefile. http://www.water.ca.gov/groundwater/sgma/basin_boundaries.cfm

groundwater levels or quality or are caused by groundwater extraction in the basin. The monitoring protocols shall be designed to generate information that promotes efficient and effective groundwater management.

The Tule Subbasin Technical Advisory Committee (TAC) has determined that a single monitoring plan that includes the entire Tule Subbasin is necessary in order to identify the types of data to be collected throughout the subbasin, the minimum number of monitoring features from which to collect data, and the monitoring protocols to be followed by each GSA, in order to ensure that the same methodologies are followed as required by California Water Code Section 10727.6 of SGMA. This Tule Subbasin Monitoring Plan (TSMP) serves that purpose.

1.1 Plan Objectives 354.34 (b)

The TSMP has been prepared to meet the following subbasin-wide objectives:

- To ensure that the data collected within the basin are in sufficient quantities, areal distribution, frequency and accuracy to provide meaningful results for demonstrating progress toward achieving measurable objectives of each GSA and the sustainability goal of the subbasin as a whole.
- To monitor impacts to the beneficial uses and users of groundwater.
- To monitor changes in groundwater conditions relative to measurable objectives and minimum thresholds.
- Enable the quantification of annual changes in water budget components.
- To identify data gaps and monitoring features to address the data gaps.
- To provide a standard methodology for the collection of surface water, groundwater, and land surface subsidence data within the Tule Subbasin.
- To provide for a central, secure monitoring database available to the GSAs for their use in preparing their respective groundwater sustainability plans and annual reports.

The TSMP is both flexible and iterative, allowing for the addition or subtraction of monitoring features, as necessary, and to accommodate changes in monitoring frequency and alternative methodologies, as appropriate.

1.2 Area Encompassed by the Monitoring Plan

The area addressed by this plan is the Tule Subbasin, as defined by the latest version of DWR Bulletin 118 as shown on Figure A1-1. The Tule Subbasin area is 744 square miles (475,895 acres). The Tule Subbasin has been subdivided into the following six GSAs (see Figure A1-1):

- Eastern Tule GSA

- Lower Tule River Irrigation District GSA
- Pixley Irrigation District GSA
- Delano-Earlimart GSA
- Tri-County Water Authority GSA
- Alpaugh GSA

1.3 Monitoring Plan Organization

The monitoring plan addresses the following types of data:

- Surface Water Data
- Groundwater Data
- Land Elevation and Subsidence Data

Each data type will be addressed in its own section that includes a description of the monitoring features for collecting data, the data collection protocols, and the monitoring frequency.

The final section of the monitoring plan describes the data management program that includes a description of the database management platform, criteria for data QA/QC, file storage, security and access, database maintenance and documentation.

2.0 Monitoring Networks 354.34

This monitoring plan presents the minimum groundwater monitoring network to be relied on by the Tule Subbasin GSAs to prepare their annual reports. Data to be collected from the monitoring network will include surface water flow, surface water quality, groundwater levels, groundwater quality and land elevation data. Groundwater levels and quality data will be collected from a network of monitoring wells spaced throughout the Tule Subbasin. The monitoring well network includes existing monitoring wells, existing domestic and agricultural wells, and new wells to be added. As some of the existing wells require further investigation prior to formal inclusion in the monitoring network, and the exact locations of new monitoring wells are yet to be determined, it will be necessary to modify the monitoring network over time to add/remove monitoring features and adjust locations.

2.1 Chronic Lowering of Groundwater Levels 354.34 (c) (1)

As there are significant differences in hydraulic head and aquifer characteristics with depth in the Tule Subbasin, monitoring wells have been identified to enable the collection of data from each of the significant subsurface hydrogeologic units in the area. These units include (in order from shallowest to deepest):

- The Upper Aquifer
- The Lower Aquifer
- The Santa Margarita Formation

The depths of each of these units follow the hydrogeological conceptual model of the Tule Subbasin outlined in the hydrogeological conceptual model and incorporated into the Tule Subbasin Groundwater Flow Model.[2] The Upper Aquifer is generally located above the Corcoran Clay in the western part of the subbasin and above other confining beds in the eastern part of the subbasin. The Upper Aquifer is generally unconfined to semi-confined. The Upper Aquifer varies in depth from approximately 400 ft below ground surface (ft bgs) in the western portion of the basin to less than 100 ft bgs in the northeastern portion. The Lower Aquifer is below the Corcoran Clay and extends to depths ranging from approximately 2,200 ft bgs in the western portion of the

[2] TH&Co, 2017a. Hydrogeological Conceptual Model and Water Budget for the Tule Subbasin. Prepared for the Tule Subbasin MOU Group. Dated August 1, 2017.

TH&Co, 2019. Groundwater Flow Model for the Tule Subbasin. Prepare for the Tule Subbasin MOU Group. In Progress.

Tule Subbasin to 400 ft bgs near State Route 99. The Santa Margarita Formation occurs at depths ranging from 700 to 2,000 ft bgs in the southeastern portion of the Tule Subbasin.

Monitoring wells are identified with perforations exclusively in the Upper Aquifer, Lower Aquifer, or Santa Margarita Formation. Individual wells perforated across multiple aquifer layers (i.e. "composite wells") will not be allowed in the monitoring plan unless no other wells are available for monitoring in the area. Over time, wells in the monitoring network that are perforated across multiple aquifers will be replaced with nested or cluster wells with perforations specific to the Upper or Lower aquifers.

2.1.1 Monitoring Features

2.1.1.1 Upper Aquifer Monitoring Wells

Upper aquifer monitoring wells are shown on Figure A1-2. A total of 78 monitoring wells have been identified for monitoring the Upper Aquifer. Of these wells, 27 have been designated as RMS wells (see Table A1-A). The Upper Aquifer monitoring wells are further described below.

Existing Upper Aquifer Monitoring Wells with Historical Records

Of the 82 wells identified for monitoring the Upper Aquifer, 36 have historical groundwater level records and meet the minimum criteria specified in Section 3.2.1.1 of the Coordination Agreement. Groundwater level hydrographs for these wells are provided in Appendix A.

Existing Upper Aquifer Monitoring Wells – No Historical Records (to be Investigated)

There are numerous existing wells with documented total depth and perforation interval(s) within the Upper Aquifer that could be incorporated into the monitoring network but require further investigation. These wells have no historical groundwater level records and owner permission for access the wells has not been pursued. However, if access is approved by the owner and the wells are demonstrated to meet the minimum criteria for monitoring wells, they may be incorporated into the monitoring plan. Many of these existing Upper Aquifer wells, to be confirmed through further investigation, have been identified for consideration in the monitoring plan (see Figure A1-2; Table A1-1). In addition, 48 wells that are part of the water quality monitoring network are included in the groundwater level monitoring network. These wells have been selected to help fill aerial coverage data gaps for monitoring Upper Aquifer groundwater levels.

Potential existing Upper Aquifer wells for which access has been denied or, upon investigation, do not otherwise meet the minimum criteria specified in Section 3.2.1.1 of the Coordination Agreement, will be removed and replaced with an alternate existing well with documented total depth and perforation interval located in the same area. If no other wells exist in the area, a new Upper Aquifer monitoring well may be constructed in the area.

Proposed New Upper Aquifer Monitoring Wells

New monitoring wells will be drilled in areas where there are no existing wells for monitoring in order to fill the data gaps. General areas for future monitoring wells are identified on Figure A1-2.

The depths and perforation intervals of the new Upper Aquifer monitoring wells will vary depending on location within the subbasin. In general, Upper Aquifer monitoring wells will be perforated from approximately 10 ft below the then current static groundwater level to the bottom of the Upper Aquifer, as defined by the Tule Subbasin conceptual model[3] (see Figure A1-2). New Upper Aquifer wells constructed on the west side of the subbasin will be the deepest and new Upper Aquifer wells constructed on the east side of the subbasin will be shallowest. It is noted that the depths presented herein are for planning purposes. The final well construction details will be refined in the field during drilling once site-specific data have been obtained and reviewed. As such, the final well depths and perforation intervals may be adjusted for site specific conditions.

A conceptual well design drawing for new Upper Aquifer monitoring wells is shown on Figure A1-3. In general, new monitoring wells shall be constructed of 5-inch diameter Schedule 80 PVC blank and slotted casing. A filter pack for the new wells will be placed in the annular borehole space opposite the perforations from the total borehole depth to at least 10 feet above the top of perforations. The upper portion of the annular space shall be backfilled with a seal consisting of bentonite or other approved sealing material. The surface completion for each new monitoring well will include a steel above-ground riser equipped with a protective locking cap for keeping the wellhead secure. The above-ground riser will be surrounded by cement-filled steel bollards for further protection.

At some locations, the well will be completed as a nested well with two 5-inch diameter casings within the same borehole. One casing will be constructed in the Upper Aquifer and the other casing will be constructed in the Lower Aquifer (see Figure A1-4). A bentonite seal will be placed in the annular space between the two perforation intervals to ensure that the data collected from each casing will be specific to the aquifer in which it is perforated.

A dedicated reference point shall be established and marked on the top of each monitoring well casing. All groundwater level measurements shall be obtained relative to the reference point. The elevation of the reference point shall be surveyed to an accuracy of 0.1 foot relative to mean sea

[3] TH&Co, 2017a. Hydrogeological Conceptual Model and Water Budget for the Tule Subbasin. Prepared for the Tule Subbasin MOU Group. Dated August 1, 2017.

level (NAVD88) by a California licensed land surveyor. The location of each well will be surveyed to an accuracy of 1 foot.

2.1.1.2 Lower Aquifer Monitoring Wells

Lower Aquifer monitoring wells are shown on Figure A1-2. A total of 66 monitoring wells have been identified for monitoring the Lower Aquifer. For the purpose of this TSMP, an additional 15 composite wells and 4 Santa Margarita Aquifer wells are included with the Lower Aquifer wells. Of the Lower Aquifer, composite, and Santa Margarita Aquifer wells, 29 have been designated as RMS wells (see Table A1-2). These wells are further described below.

Existing Lower Aquifer Monitoring Wells with Historical Records

Of the 66 existing wells identified for monitoring the Lower Aquifer, nine are existing wells with historical groundwater level records and meet the minimum criteria specified in Section 3.2.1.1 of the Coordination Agreement. Groundwater level hydrographs for these wells are provided in Appendix B.

Existing Lower Aquifer Monitoring Wells – No Historical Records (to be Investigated)

There are numerous existing wells with documented total depth and perforation interval(s) within the Lower Aquifer that could be incorporated into the monitoring network but require further investigation. These wells have no historical groundwater level records and owner permission to access the wells has not been pursued. However, if access is approved by the owner and the wells are demonstrated to meet the minimum criteria for monitoring wells, they may be incorporated into the monitoring plan. Many of these existing Lower Aquifer wells, to be confirmed through further investigation, have been identified for consideration in the monitoring plan (see Figure A1-2; Table A1-2). In addition, 20 wells that are part of the water quality monitoring network are included in the groundwater level monitoring network. These wells have been selected to help fill aerial coverage data gaps for monitoring Lower Aquifer groundwater levels.

Potential existing Lower Aquifer wells for which access is denied or, upon investigation, do not otherwise meet the minimum criteria specified in Section 3.2.1.1 of the Coordination Agreement, will be removed and replaced with an alternate existing well with documented total depth and perforation interval located in the same area. If no other wells exist in the area, a new Lower Aquifer well will be constructed in the area.

Proposed New Lower Aquifer Monitoring Wells

New monitoring wells are planned to be constructed in the Lower Aquifer (see Figure A1-2). New Lower Aquifer monitoring wells will be drilled in areas where there are no existing wells for

monitoring in order to fill data gaps. General areas for future monitoring wells are identified on Figure A1-2.

The depths and perforation intervals of the new Lower Aquifer monitoring wells will vary depending on location within the subbasin. In general, Lower Aquifer monitoring wells will be perforated below the Corcoran Clay, where it has been mapped, or at depths where the aquifer is assumed to be confined, as defined by the Tule Subbasin conceptual model.[4] New Lower Aquifer monitoring wells will be constructed with total depths ranging from 400 to 1,000 ft bgs, with the deepest wells in the western part of the subbasin and shallowest wells on the east side of the subbasin. It is noted that the depths presented herein are for planning purposes. The final well construction details will be refined in the field during drilling once site-specific data have been obtained and reviewed. As such, the final well depths and perforation intervals may be adjusted for site specific conditions.

A conceptual well design drawing for new Lower Aquifer monitoring wells is shown on Figure A1-5. In general, new monitoring wells shall be constructed of 4-inch diameter PVC blank and slotted casing. A dedicated reference point shall be established and marked on the top of each monitoring well casing. All groundwater level measurements shall be obtained relative to the reference point. The elevation of the reference point shall be surveyed to an accuracy of 0.1 foot relative to mean sea level (NAVD88) by a California licensed land surveyor. The location of each well will be surveyed to an accuracy of 1 foot.

2.1.2 Monitoring Procedure

Groundwater level measurements shall be collected from each well using either a steel tape, a calibrated well sounder, or a pressure transducer. Where possible, groundwater level measurements shall be collected with a steel tape or an electrical groundwater level sounder calibrated to the nearest 0.01 ft. For pre-existing wells with limited access, a calibrated steel tape and chalk may be used. All equipment must be in good working condition. No damaged or refurbished electrical sounding tape shall be used. All new monitoring wells shall be equipped with calibrated pressure transducers.

Groundwater level measurements must be representative of static (i.e. non-pumping) groundwater level conditions. To ensure measurement of static groundwater levels in active pumping wells, the field technician collecting the data must verify that the pump has been off for at least 24 hours prior to collecting the data.

[4] TH&Co, 2017a. Hydrogeological Conceptual Model and Water Budget for the Tule Subbasin. Prepared for the Tule Subbasin MOU Group. Dated August 1, 2017.

2.1.2.1 Manual Groundwater Level Measurements

The following monitoring procedure shall be used to obtain manual groundwater level measurements in the field:

- Upon arrival at each site, the field technician shall note the well name, time of day, and date on the standard groundwater level data form (see Appendix C).
- All monitoring equipment shall be cleaned prior to lowering it into the well(s) using the following decontamination procedure:
    - Wash equipment with an Alconox solution which is followed by a deionized water rinse.
    - Triple rinse equipment with deionized water.
    - Place equipment on clean surface such as teflon or polyethylene sheet to air dry.
- To measure the depth to groundwater with a steel tape or an electrical sounder or meter, slowly lower the steel tape or water level electrical tape into the designated sounding port for production wells and into the main well for monitoring wells. Steel tapes and electrical tapes are lowered to the water surface, as determined by the audio signal, meter, or technician. Depths to groundwater are measured relative to the dedicated reference point at the top of the casing or sounding tube. Depth to groundwater shall be immediately recorded on the standard groundwater level data form (see Appendix C). Depths to groundwater shall be compared to previous measurements in the field and re-measured if significantly different.
- For wells with limited access (such as agricultural wells or domestic wells equipped with a pump), a steel tape and chalk may be used. For this method, chalk is applied to a 1- to 3-foot section of the steel tape prior to lowering in the well. The steel tape is lowered to a depth at least 1-ft below the static groundwater level and a whole number on the calibrated tape is matched to the reference point at the surface. Both the foot mark held at the reference point and the groundwater level observed on the chalk shall be recorded on the standard field forms (see Appendix D). The difference between the two is the depth to groundwater.
- When finished sounding the groundwater level, all downhole equipment shall be removed, and where existing, the well cap shall be replaced, and the riser locked.
- Prior to leaving the monitoring well site, the field representative shall note any physical changes in the concrete well pad and riser pipe, such as erosion, cracks or damage. All changes shall be recorded on the standard field forms provided in Appendices C, D, and E.

2.1.2.2 Automatic Groundwater Level Measurements Using Transducers

Transducers shall be installed in all new monitoring wells and existing monitoring wells identified as representative monitoring sites. Transducers shall be installed below the groundwater level with enough submergence to accommodate anticipated groundwater level fluctuations.

2.1.3 Frequency of Measurement

Groundwater level measurements from existing domestic and irrigation wells shown on Figure A1-2 will be collected semi-annually in the Spring (February/March) and in the Fall (October/November). To the extent possible, groundwater level monitoring events will be coordinated between GSAs so that measurements are taken at the time of greatest recovery and maximum depth.

Groundwater level measurements from all new monitoring wells and wells designated as representative monitoring sites will be collected using pressure transducers permanently installed in the wells and set to collect one measurement per day. Pressure transducers will be downloaded on a semi-annual basis. During each download session, the field technician will also obtain a manual groundwater level measurement in order to verify transducer readings and ensure that the instruments are working properly.

2.2 Reduction in Groundwater Storage § 354.34 (c) (2)

Changes in groundwater storage within the Tule Subbasin will be estimated using either of the methods identified in Section 3.6 of the Tule Subbasin Coordination Agreement. Groundwater level data to be relied on for the change in groundwater storage estimates will be collected as described in Section 2.1 of this TSMP.

2.3 Seawater Intrusion § 354.34 (c) (3)

Seawater intrusion cannot occur in the Tule Subbasin due to its location with respect to the Pacific Ocean. The Tule Subbasin is approximately 110 miles inland of the Pacific Ocean and is separated from the ocean by approximately 90 miles of sedimentary rocks that make up the Coast Ranges. These sedimentary rocks effectively separate the Pacific Ocean hydraulically from the aquifer system in the San Joaquin Valley. Further, the Coast Ranges are dissected by multiple northwest trending faults, the largest of which is the San Andreas Fault. These faults form groundwater flow barriers, which further act to separate the San Joaquin Valley aquifers from the Pacific Ocean. Accordingly, groundwater pumping in the Tule Subbasin cannot induce seawater intrusion. As such, monitoring for seawater intrusion is not necessary and is not included in this monitoring plan.

2.4 Degraded Water Quality § 354.34 (c) (4)

Groundwater samples shall be collected and analyzed annually, during summer months, from the wells shown on Figure A1-6 consistent with the Tule Basin Water Quality Coalition Groundwater Quality Trend Monitoring Program Workplan.[5] The groundwater sampling protocols described herein will ensure that:

- Groundwater quality data are collected from the correct location
- Groundwater quality data are accurate and reproducible
- Groundwater quality data represent conditions that inform appropriate basin management decisions
- All salient information is recorded to normalize, if necessary, and compare data
- Data are handled in a way that ensures data integrity

2.4.1 Groundwater Quality Constituents to be Analyzed

Annual water quality monitoring of the wells shown on Figure A1-6 will include laboratory analysis for nitrate as N only (see Table A1-3). Prior to collecting the samples in the field, the field technician will collect measurements of temperature, pH, dissolved oxygen (DO) and electrical conductivity (EC) from the well discharge, as described in Section 2.4.2 herein.

Every five years, samples from the wells shown on Figure A1-6 will be analyzed for an expanded list of analytes. In addition to nitrate, samples will be analyzed for total dissolved solids (TDS) and major cations and anions (see Table A1-3). Prior to collecting the samples in the field, the field technician shall collect measurements of temperature, pH, DO and EC from the well discharge, as described in Section 2.4.2 herein.

2.4.2 Groundwater Quality Samples from Existing Domestic Water Supply or Irrigation Wells

Domestic water supply and irrigation wells shall be sampled after purging the well for a period of time adequate to remove at least three well volumes removed prior to sampling (see Appendix E). If the well is currently pumping, this step is not necessary.

During pumping and prior to sample collection, the field technician shall obtain measurements of temperature, pH, DO and EC from water collected from the sample port. Meters for measuring pH, DO and EC shall be field calibrated in accordance with manufacturer's specifications at the beginning of each sampling day. Samples will be collected when: (1) a minimum of four sets of

[5] Tule Basin Water Quality Coalition, 2017. Groundwater Trend Monitoring Workplan. January 6, 2017.

parameter readings have been obtained; and (2) the temperature, pH, and EC reach relatively constant values.

All samples shall be collected from the discharge point nearest the well head and placed in laboratory-prepared sample containers. The technician collecting the sample shall wear new latex or neoprene gloves while collecting the sample. Sample containers shall be labeled before or immediately after sampling with self-adhesive tags having the following information written in waterproof ink:

- Project number
- Sample I.D. number
- Sample location
- Date and time sample was collected
- Initials of sample collector

2.4.3 Groundwater Quality Samples from Monitoring Wells

All groundwater samples from monitoring wells will be collected consistent with procedures described in the United States Environmental Protection Agency's (USEPA's) Low-flow (Minimal Drawdown) Groundwater Sampling Procedures.[6] Low-flow purging can be conducted using either portable or dedicated (leave in well) pump systems. A submersible pump, diaphragm pump, or positive displacement pump, which may contain a bladder, may be used for evacuating (purging) the monitoring well casing and collecting the samples. The pump-intake should be set in the middle or slightly above the middle of the screened interval in the well. Other equipment necessary for collecting groundwater samples using the low-flow sampling method include:

- A water level measurement device, or water level sounder
- In-line flow through cell to monitor water quality parameters
- Field forms for documenting water quality parameters measured at each monitoring well
- Chain of custody forms
- Laboratory prepared sample containers from a State-certified laboratory with the appropriate labels for the analytes being measured
- Gloves
- Cleaning supplies for decontaminating
- Tubing for the pump

[6] Puls, R.W., and Barcelona, M.J., 1996. Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures. EPA document 540/S-95-504.

All samples shall be collected from a discharge port at the wellhead and placed in laboratory-prepared sample containers. For dissolved trace metal analyses, samples will be collected in unpreserved bottles, then filtered through a 0.45-micron filter and acidified prior to analysis. The technician collecting the sample shall wear new latex or neoprene gloves while collecting the sample. Sample containers shall be labeled before or immediately after sampling with self-adhesive tags having the following information written in waterproof ink:

- Project number
- Sample I.D. number
- Sample location
- Date and time sample was collected
- Initials of sample collector

2.4.4 Well Sampling Records

Data collected during groundwater sampling will be recorded on the standard forms provided in Appendix F. Information and data to be recorded shall include:

- Sample I.D.
- Duplicate I.D., if applicable
- Date and time sampled
- Name of sample collector
- Well designation (State well numbering system for water supply wells)
- Owner's name, or other common designation
- Well diameter
- Depth to water on day sampled
- Casing volume on day sampled
- Method of purging (bailing, pumping, etc.)
- Extraordinary circumstances (if any)
- Field measurements temperature (0º C), pH, specific electrical conductivity (at 25ºC µs/cm), and dissolved oxygen (mg/l)
- Number and type of sample container(s)
- Times corresponding to water quality measurements
- Pumping rate at time of sampling

In addition to the standard forms for collecting data, the field technician shall keep a daily field record for each day of fieldwork. Following review by the project manager, the original records shall be kept in the project file.

2.4.5 Handling, Storage and Transportation of Samples

Upon collection and labeling, all samples shall be placed immediately into a clean chest/cooler with ice in order to keep samples cool. Exposure to dust, direct sunlight, high temperature, adverse weather conditions, and possible contamination shall be avoided.

All samples will be transported to a State-certified analytical laboratory within 24 hours of collection. Samples shall be transported under chain-of-custody procedures, which document the transfer of custody of samples from the field to the laboratory. Each sample sent to the laboratory for analysis shall be recorded on a Chain-of-Custody Record, which includes instructions to the laboratory for analytical services.

Information contained on the triplicate Chain-of-Custody Record shall include:

- Project number
- Signature of sampler(s)
- Date and time sampled
- Sample I.D.
- Number of sample containers
- Sample matrix (water)
- Analyses required
- Remarks, including preservatives, special conditions, or specific quality control measures
- Turnaround time and person to receive laboratory report
- Method of shipment to the laboratory
- Release signature of sampler(s), and signatures of all people assuming custody
- Condition of samples when received by laboratory

Blank spaces on the Chain-of-Custody Record will be crossed out between the last sample listed and the signatures at the bottom of the sheet.

The field sampler shall sign the Chain-of-Custody Record and record the time and date at the time of transfer to the laboratory or to an intermediate person. A set of signatures is required for each relinquished/reserved transfer, including intermediate transfers. The original imprint of the Chain-of-Custody Record will accompany the sample containers. A duplicate copy shall be placed in the project file.

If the samples are to be shipped to the laboratory, the original Chain-of-Custody will be sealed inside a plastic bag within the ice chest, and the chest shall be sealed with custody tape which has been signed and dated by the last person listed on the Chain-of-Custody. U. S. Department of Transportation shipping requirements shall be followed and the sample shipping receipt retained in the project file as part of the permanent chain-of-custody document. The shipping company

(e.g. Federal Express, UPS, DHL) will not sign the chain-of-custody forms as a receiver, instead the laboratory shall sign as a receiver when the samples are received.

2.4.6 Quality Control Samples

Quality control samples shall consist of duplicates and blanks. At least one duplicate sample shall be collected during each day of sampling. The duplicate sample shall be collected from the same well as the original and immediately after the original sample. At least one blank sample shall be included with each batch of samples delivered to the laboratory. Blank samples shall consist of laboratory prepared deionized water that is containerized at the laboratory and delivered with the sample containers. Duplicate and blank samples will be analyzed by the laboratory, as specified in the project Quality Assurance Project Plan (QAPP)[7] or by the project manager (see Appendix E).

2.4.7 Frequency of Measurement

Groundwater quality samples will be collected from the wells shown on Figure A1-6 on an annual basis, during the summer, and analyzed as described in Section 2.4.1 herein.

2.5 Land Subsidence 354.34 (c) (5)

Land surface subsidence has been observed in multiple areas within the Tule Subbasin. Based on United States Geological Survey (USGS) measurements and analysis of land subsidence that occurred in the area in the 1950s and 1960s,[8] it has been determined that the land subsidence is associated with lowered groundwater levels due to groundwater pumping in areas where the subsurface contains a significant amount of clay and silt. Recent land subsidence in the Tule Subbasin has resulted in lowered flow capacity in the Friant-Kern Canal. Subsidence has also been observed from satellite data in the western portion of the subbasin.

2.5.1 Monitoring Features

Monitoring of changes in land surface elevation related to groundwater withdrawal will be conducted through global positioning surveys, data collected from extensometers, and satellite data.

[7] Tule Basin Water Quality Coalition, 2017. Groundwater Trend Monitoring Workplan. January 6, 2017.
[8] Lofgren, B.E., and Klausing, R.L., 1969. Land Subsidence Due to Ground-Water Withdrawal, Tulare-Wasco Area of California. USGS Professional Paper 437-B.

2.5.1.1 Global Positioning Surveys

A total of 60 benchmark stations have been established to monitor changes in land elevation across the subbasin using GPS measurements (see Figure A1-7). Each survey station is a benchmark labeled with the station identification. An additional 34 benchmark stations established by the Friant Water Authority (FWA) are included in the monitoring network. In addition to the existing benchmark network, additional benchmarks may be established in the subbasin in the future.

Land surface elevations from the Porterville GPS Station (Station P056), located at the Porterville Airport (see Figure A1-7), are also included in this plan. The data is available through the University NAVSTAR Consortium (UNAVCO) website.

2.5.1.2 Extensometers

The USGS collects data on aquifer system compaction, which causes land subsidence, from one existing extensometer near Porterville (22S/27E-30D2; see Figure A1-7). This station is located adjacent to the Friant-Kern Canal approximately one mile north of the Deer Creek crossing. Data from this extensometer can be accessed via the USGS website.

In addition to the existing extensometer, additional extensometers may be established at strategic locations of the subbasin in the future.

2.5.1.3 Satellite Data (InSAR)

Changes in land surface elevation over time can be observed on a regional scale using satellite data. The data is generated using interferometric synthetic aperture radar (InSAR). InSAR data is available and will be obtained from the CDWR on a quarterly basis.

2.5.2 Monitoring Procedure

2.5.2.1 Global Positioning Surveys

The GPS network will be established and monitored in accordance with National Geodetic Survey (NGS) Guidelines for Establishing GPS-Derived Ellipsoid Heights (National Oceanographic and Atmospheric Administration and Guidelines for Establishing GPS-Derived Orthometric Heights.[9] All GPS-derived elevations will be constrained to an established NGS benchmark located on Lake

[9] NOAA, 1997.

Success Dam (KT 200). All land surface elevation readings will be to an accuracy of 0.1 feet relative to NAVD88.

Land surface elevations from the Porterville GPS Station will be downloaded from the UNAVCO website as needed.

2.5.2.2 Extensometers

The USGS extensometer is equipped with a continuous monitoring device to record aquifer system compaction. Aquifer system compaction data will be downloaded from the USGS website for analysis as data updates are available.

2.5.2.3 Satellite Data (InSAR)

InSAR data will be obtained from the Jet Propulsion Laboratory, USGS, or European Space Agency for processing. The data will be analyzed and interpreted by an outside professional (Neva Ridge Technologies, Inc. or approved equal) in order to develop maps showing regional land surface changes.

2.5.3 Frequency of Measurement

2.5.3.1 Global Positioning Surveys

GPS surveys of the stations shown on Figure A1-7 will be conducted on an annual basis correlated to groundwater quality sampling events. GPS surveys of stations located within the Friant-Kern Canal Monitoring Zone will be conducted on a quarterly basis.

2.5.3.2 Extensometers

Aquifer system compaction is measured on a continuous basis at the USGS extensometer. Aquifer system compaction data will be downloaded from the USGS website for analysis as data updates are available.

2.5.3.3 Satellite Data (InSAR)

InSAR data will be obtained and analyzed on a quarterly basis.

2.6 Depletions of Interconnected Surface Water 354.34 (c) (6)

Surface water flow in the Tule River and Deer Creek ultimately flow into the historical Tulare Lake but only during periods of prolonged above-normal precipitation. Surface water flow in the White River does not reach the Tulare Lake bed. Surface water flow in the Tule River, including flow beyond the Tule Subbasin, is monitored and managed by the Tule River Association (TRA).

Surface water flow in the Deer Creek and White River are monitored by the USGS and USBR. The monitoring features, monitoring procedures, and monitoring frequency for surface water in the Tule Subbasin follows the features, procedures, and frequency already in place by these organizations.

2.6.1 Monitoring Features

A primary source of water to the Tule Subbasin is surface water runoff originating in the Sierra Nevada Mountains. The primary rivers/streams contributing surface water to the subbasin include the Tule River, Deer Creek, and White River (see Figure A1-8). Each of these rivers/streams contain existing surface water monitoring stations for the collection of both stream flow and surface water quality. The following summarizes the key monitoring features and locations in the subbasin.

2.6.1.1 Tule River

Stream flow in the portion of the Tule River that is within the Tule Subbasin is determined by controlled releases from Lake Success, measured by the Army Corps of Engineers (ACOE). Stream flow entering Lake Success is measured and distributed to various water rights holders as allocated at Success Dam in accordance with the Tule River Water Diversion Schedule and Storage Agreement.[10] The accounting of surface water flow, storage, streambed losses, and diversions is documented for each water year in the TRA annual reports from 1962 through 2017.

Tule River Stream Flow – Main Channel

Stream flow in the Tule River is measured by the ACOE below Success Dam, at Rockford Station downstream of Porterville, and at Turnbull Weir by the TRA (see Figure A1-8). In addition, releases of imported Central Valley Project water into the Tule River and Porter Slough from the Friant-Kern Canal are conducted at two locations, which are measured via weir structures managed by the USBR. Details regarding the location and construction of each stream flow gage are provided in Table A1-4.

[10] TRA, 1966. Tule River Diversion Schedule and Storage Agreement. Dated February 1, 1966; revised June 16, 1966.

Tule River Diversions - Structures and Headgates

Between Lake Success Dam and the Turnbull Weir, water is diverted from the Tule River to various water right holders. Diversion locations are shown on Figure A1-8 and described as follows:

Pioneer Water Company:

The headgate is a portion of the Success Reservoir outlet works and consists of a 42-inch gated conduit. The gaging station is a standard 5-foot concrete Parshall flume located 100 feet downstream of the reservoir outlet works at a point approximately 2,100 feet south and 1,400 feet east of the northwest corner of Section 35, Township 21 South, Range 28 East, M.D.B.&M., being in the southeast quarter of the northeast quarter of said Section 35.

Porter Slough at Headgate

The Porter Slough Headgate diverts water from the main channel of the Tule River to the Porter Slough, an ancestral branch of the Tule River that extends from the headgate to the LTRID No. 4 Canal (see Figure A1-8). The headgate is located in the southeast quarter of the northeast quarter of Section 4, Township 22 South, Range 28 East, M.D.B.&M. Five bays of flashboards control the diversions from the Tule River in Porter Slough.

Flows at the headgate of Porter Slough are computed by the addition of 5 cubic-feet per second to the daily mean flows measured at the Porter Slough at Porterville (B Lane) gaging station.

Porter Slough at Porterville

The gaging station is a rated section of the natural channel situated approximately 2,900 feet west and 1,100 feet north of the southeast corner of Section 32, Township 21 South, Range 28 East, M.D.B.&M. and 1.4 miles below the Porter Slough headgate in the Boydston Weir.

Porter Slough Ditch Company

The headgate is located in the Porter Slough check structure at Putnam Street being approximately 2,500 feet west and 1,500 feet north of the Southeast corner of Section 26, Township 21 South, Range 27 East, M.D.B.&M., being in the northwest quarter of the southeast quarter of said Section 26. The gaging station is a rated section 150 feet below the headgate.

Porter Slough Below Avenue 192

Porter Slough terminates with discharge through a concrete check structure into the No. 4 Canal of LTRID located near the center of Section 11, Township 21 South, Range 26 East, M.D.B.&M., one-half mile easterly of Tulare County Road 192. A daily weir measurement is used for recording the flow of Porter Slough Below 192.

Downstream of Avenue 192, the Porter Slough discharges into a series of unlined canals that deliver water to farmers in the LTRID.

Campbell and Moreland Ditch Company:

The headgate is located near the South end of Boydston Weir at a point approximately 600 feet west and 1,700 feet south of the northeast corner of Section 4, Township 22 South, Range 28 East, M.D.B.&M., being in the southeast quarter of the northeast quarter of said Section 4. The gaging station is a rated concrete lined canal section 2,600 feet below the headgate.

Vandalia Ditch Company:

The headgate is located in the south end of Vandalia Weir at a point approximately 1,160 feet west and 170 feet north of the southeast corner of Section 32, Township 21 South, Range 28 East, M.D.B.&M., being in the southeast quarter of the southeast quarter of said Section 32. The gaging station is a rated section 1,000 feet below the headgate.

Hubbs & Miner Ditch Company:

The canal diverts along the North levee of the Tule River at a point approximately 2,600 feet west and 2,100 feet north of the southeast corner of Section 35, Township 21 South, Range 27 East, M.D.B.&M., being in the northwest quarter of the southeast quarter of said Section 35. The gaging station is a rated section 3,100 feet below the canal diversion and 85 feet downstream of the River bypass headgate structure.

Poplar Irrigation Company:

The canal diverts along the south levee of the Tule River at a point approximately 740 feet west and 1,000 feet north of the southeast corner of Section 36, Township 21 South, Range 27 East, M.D.B.&M., being in the southeast quarter of the southeast quarter of said Section 36. The gaging station is a rated section 3,400 feet below the canal diversion and 325 feet downstream of the River bypass headgate structure.

Woods-Central Ditch Company:

The headgate structure is located in the South bank of the Tule River at a point approximately 2,300 feet west and 2,200 feet north of the southeast corner of Section 30,

Township 21 South, Range 27 East, M.D.B.&M., being in the northwest quarter of the southeast quarter of said Section 30. The gaging station is a rated section 150 feet below the River diversion.

2.6.1.2 Deer Creek

Deer Creek is a natural drainage that originates in the Sierra Nevada Mountains, flowing in a westerly direction north of Terra Bella and between Pixley and Earlimart (see Figure A1-8). The Deer Creek channel extends to the Homeland Canal, although surface water flow rarely reaches that location.

Deer Creek Stream Flow

Stream flow in Deer Creek is measured at the United States Geological Survey (USGS) gage at Fountain Springs (five miles east of, and outside of, the Tule Subbasin boundary), Trenton Weir, and at the point where Deer Creek outlets to the Homeland Canal (see Figure A1-8). Details regarding the location and construction of each stream flow gage are provided in Table A-4 and summarized below.

Friant-Kern Canal Discharges into Deer Creek

Friant-Kern Canal water is also discharged into Deer Creek approximately five miles upstream of Trenton Weir and measured by the USBR (see Figure A1-8).

2.6.1.3 White River

The White River drains out of the Sierra Nevada Mountains east of the community of Richgrove in the southern portion of the Tule Subbasin (see Figure A1-8). The White River channel extends as far as State Highway 99 but does not reach the historical Tulare Lake bed. Streamflow in this river is currently monitored manually at Road 208 by the Tule Basin Water Quality Coalition and the Delano-Earlimart Irrigation District.

2.6.2 Monitoring Procedure

2.6.2.1 Surface Water Flow Measurements

With the exception of the White River Turnbull Weir at Road 208, Porter Slough at 192, and Deer Creek outlet to Homeland Canal, all gaging stations and diversion structures on the Tule River and Deer Creek are equipped with water stage recorders that collect water stage readings automatically every 15 minutes. The gage on the Tule River Below Success Dam is operated and managed by the ACOE. The Trenton Weir on Deer Creek is operated and managed by the ACOE. All other gages (with the exceptions noted) report data electronically in real time to the TRA/LTRID.

Stream flow at the Turnbull Weir is measured manually when flow passes the gage. Manual measurements involve recording the reading on the staff gage in the river and conducting current meter measurements for verifying the rating curve and table. Current meter measurements will be collected within the rated section of the natural channel under laminar flow conditions. The required frequency of manual measurements at the Turnbull Weir is addressed in Section 2.6.3. Staff gage and current meter readings are recorded immediately after completion of the measurement and any significant shifts are verified immediately by re-measurement. All readings are recorded on standard forms that include the time the measurement began, the time the measurement was completed, the staff gage height in feet to the nearest hundredth, and any other pertinent data with respect to channel conditions, growth, etc.

For water stage recorders, should the flow double within any 24-hour period, the bi-hourly gage heights shall be converted to second-foot flows and the mean daily flow computed from the second-foot quantities rather than utilizing the normal procedure of obtaining a mean daily gage height and the gage height to a second-foot flow. In the final review of gage sheets, shifts shall be prorated through the period during which the change occurred as determined from the current meter measurements, unless the Hydrographer determines a specific reason for the shift to occur at a definite time.

2.6.2.2 Surface Water Quality Measurements

Surface water quality samples have historically been collected and analyzed from the Tule River, Deer Creek and White River by the Tule Basin Water Quality Coalition surface water quality program. Surface water quality monitoring stations are shown on Figure A1-8.

Surface Water Quality Monitoring Locations – Tule River

Porter Slough at Road 192

Surface water quality samples are collected from Porter Slough upstream of the discharge into the LTRID canal (see Figure A1-8). This surface water monitoring site is located approximately eight miles northwest of Porterville, California.

Tule River at Road 144

Surface water quality samples are collected from the North Fork of the Tule River at Road 144, approximately 3.5 miles northwest of Woodville, California.

Tule River at Road 92

Surface water quality samples are collected from the Tule River at Road 92, approximately four miles northwest of Tipton, California.

Surface Water Quality Monitoring Locations – Deer Creek

Surface water samples are collected from the following locations in Deer Creek:

Deer Creek at Road 248

Located approximately 2.5 miles northeast of Terra Bella in the foothills of the Sierra Nevada Mountains.

Deer Creek at Road 176

Located at Trenton Weir.

Deer Creek at Road 120

Located approximately six miles southeast of Pixley, California at the Road 120 bridge.

Surface Water Quality Monitoring Locations – White River

Surface water quality samples are collected from the White River at Road 208 when flow occurs.

2.6.2.3 Surface Water Quality Constituents

Each surface water quality sample is analyzed by a State certified analytical laboratory for the constituents listed in Table A1-5. In general, these constituents include electrical conductivity (EC), pH, dissolved oxygen (DO), E. Coli bacteria, total organic carbon (TOC), total suspended solids (TSS), total dissolved solids (TDS), turbidity, selected metals, hardness, ammonia, nitrate as N, orthophosphate, and phosphorus.

2.6.3 Frequency of Measurement

2.6.3.1 Stream Flow

Stream flows at gaged stations and diversion points are measured on a continuous basis and electronically transmitted to the TRA/LTRID.

For stream flows at locations with no established gage (e.g. Turnbull Weir and Porter Slough at 192), a current meter measurement is made at least once every two weeks when flows occur. An initial current meter measurement is made as soon as flow is detected and a final current meter measurement is made just prior to discontinuance of flow. Current meter measurements are made when a major change in the stage of flow occurs whether the flow is an increase or a decrease.

2.6.3.2 Surface Water Quality

Surface water quality samples are collected from all of the surface water quality monitoring locations shown on Figure A1-8 on a monthly basis when flow occurs.

2.6.4 Stream Gage Calibration and Maintenance

Manual readings are conducted at each active gaging station at least once per month in order to assess the accuracy of the gage reading to the rating curve. Adjustments are made as necessary.

All gaging stations undergo maintenance at least once per year to clean and backwash inlet pipes, clean and adjust recorder and appurtenances, check and repair time clocks, and repaint the station enclosures, as needed. If the time is off more than one-half hour, or the pen is off more than 0.05 feet, the recorder is reset to correct readings, the pen shall conform to the tape, and the drum shall be rolled for restarting the operation on a new coordinate with revised gage heights denoted.

Gage sheets are reduced as readily as possible after removal from the recorder withadditional notations made for assistance in subsequent reviews. Such notations includeestimated flows should the recorder provide an incomplete recording due to fouling, clock malfunction or if growth is observed in the channel.

3.0 Representative Monitoring §354.36

3.1.1 Groundwater Levels

A subset of groundwater level monitoring features in the monitoring plan have been identified as representative monitoring sites to be relied on for the purpose of assessing progress with respect to groundwater level sustainability in the subbasin. The representative groundwater level monitoring sites are shown on Figure A1-2. At least one representative groundwater level monitoring site has been identified within each management area. Where possible based on available wells, representative monitoring sites have been chosen with perforations exclusively in either the Upper or Lower Aquifer. To provide adequate spatial coverage of the subbasin, some representative monitoring sites include perforations across multiple aquifers until new monitoring features can be constructed. Representative groundwater level monitoring wells will be equipped with pressure transducers to measure groundwater levels on a daily basis.

3.1.2 Reduction of Groundwater Storage

Changes in groundwater storage within the Tule Subbasin will be estimated using either of the methods identified in Section 3.6 of the Tule Subbasin Coordination Agreement. Groundwater level data to be relied on for the change in groundwater storage estimates will be collected as described in Section 2.1 of this TSMP from the monitoring network shown on Figures A1-2 and A1-5. As such, there are no single representative monitoring sites for evaluating progress with respect to groundwater sustainability as it relates to changes in groundwater storage in the subbasin.

3.1.3 Seawater Intrusion

Seawater intrusion cannot occur in the Tule Subbasin due to its location with respect to the Pacific Ocean (see Section 2.3 herein). As such, representative monitoring sites for evaluating progress with respect to groundwater sustainability as it relates to seawater intrusion are not needed.

3.1.4 Degraded Groundwater Quality

Groundwater quality degradation in the Tule Subbasin is being monitored and regulated under the Irrigated Lands Regulatory Program (ILRP) and CV Salts. Monitoring of groundwater quality as it relates to the sustainability of the Tule Subbasin is focused on potential changes in the direction and/or flow rate of existing point-source groundwater contaminant plumes. These plumes have been identified and described in Section 2.2.4 of the Tule Subbasin Setting (Attachment 2 of the Tule Subbasin Coordination Agreement). As changes in the movement of contaminant plumes occurs as a result of changes in groundwater levels, the representative monitoring sites identified

for groundwater levels (Section 3.1.1 herein) serve as proxy representative monitoring sites for the potential movement of existing groundwater contaminant plumes.

3.1.5 Land Subsidence

Representative monitoring sites for land subsidence within the Tule Subbasin consist of the network of GPS benchmark stations shown on Figure A1-7. Land subsidence has been measured along the canal in the past and further land subsidence is considered an undesirable result as it restricts the ability to deliver water downstream of the area of subsidence. Measured subsidence at these GPS stations will inform progress as it relates to arresting future land subsidence along the canal.

3.1.6 Interconnected Surface Water

As described in Section 2.2.7 of the Tule Subbasin Setting (Tule Subbasin Coordination Agreement Attachment 2), there are no interconnected surface water systems within the Tule Subbasin. As such, representative monitoring sites for evaluating progress with respect to groundwater sustainability as it relates to interconnected surface water are not needed.

4.0 Assessment and Improvement of Monitoring Network §354.38

The TSMP is both flexible and iterative, allowing for the addition or subtraction of monitoring features, as necessary, and to accommodate changes in monitoring frequency and alternative methodologies, as appropriate.

4.1 Data Gaps §354.38 (b)

4.1.1 Groundwater Monitoring Data Gaps

Despite the number of existing monitoring wells that have been identified within the Tule Subbasin, there remain data gaps that, if addressed, would improve the ability to monitor groundwater level changes and flow patterns specific to the Upper and Lower aquifers. The current data gaps relate primarily to spatial coverage of monitoring features necessary to prepare complete groundwater level contour maps specific to the Upper and Lower aquifers in the subbasin.

In addition to groundwater level data gaps, there is a lack of aquifer parameter data, as obtained from controlled pumping tests of wells. The groundwater flow model has been developed based predominantly on short-term pumping tests, which enable the development of estimates of aquifer transmissivity. However, these tests are not as representative as long-term pumping tests (24-hr tests or longer). Further, pumping tests where groundwater level interference is measured in nearby monitoring wells have not been conducted. These tests enable the estimation of aquifer storage properties. During the construction of new monitoring features, it is anticipated that long-term pumping tests will be conducted to obtain aquifer parameter data specific to both the Upper and Lower aquifers. Further, pumping tests will be planned, where feasible, on existing high-capacity groundwater production wells.

Recommended Monitoring Features and Testing to Address Data Gaps §354.38 (d)

Identification of new monitoring well locations is an ongoing effort in the Tule Subbasin. Potential areas for new wells to address groundwater level data gaps are shown on Figure A1-2 and described in Sections 2.1.1.1 and 2.1.1.2 herein. The new monitoring wells, combined with existing monitoring wells, will improve the Tule Subbasin TAC's ability to develop detailed and representative groundwater contour maps and provide a better network of calibration targets for the subbasin-wide groundwater model. It is further anticipated that many of the new monitoring wells will eventually replace currently assigned representative monitoring sites.

As described in Section 2.1.1.1 herein, some of the new monitoring wells will be constructed as nested wells with two casing installed in the same borehole, each perforated in a distinct aquifer and isolated with a seal to ensure measurement of data unique to either the Upper or Lower aquifer.

In order to address the aquifer parameter data gaps, it is recommended to conduct controlled, long-term pumping tests in selected wells within the subbasin. Tests should be conducted in wells perforated exclusively in the Upper Aquifer and exclusively in the Lower Aquifer. Pumping wells will be selected near proposed monitoring wells in order to enable pumping interference measurements during the test. Each test will consist of a 24-hr constant rate pumping test.

4.1.2 Land Surface Monitoring Data Gaps

InSAR data that cover the entire Tule Subbasin have been historically available and indicate areas where land subsidence has been occurring. Confirmation of these data with more conventional land based survey methods such as GPS is ongoing. The USGS has refurbished one extensometer, which is located approximately one mile north of Deer Creek along the Friant-Kern Canal and is included in this plan. However, characteristics of aquifer system compaction in the northwestern portion of the subbasin, which is hydrogeologically different than the area where the existing extensometer is located, is unknown and represents a data gap.

Recommended Monitoring Features to Address Land Surface Monitoring Data Gaps §354.38 (d)

At least one new extensometer is recommended for the vicinity of the Homeland Canal at Highway 43 in the northwest portion of the subbasin. This instrument will provide the most accurate assessment of aquifer system compaction in the area of greatest subsidence in the subbasin.

4.1.3 Surface Water Monitoring Data Gaps

The following surface water monitoring data gaps have been identified for the Tule Subbasin:

- Tule River near Porterville - Channel infiltration losses in the upper portion of the Tule River are currently calculated between the gage below Success Dam and the gage at the Rockford Station, which is a 10-mile stretch of the river. It appears that more of the infiltration losses occur in the upper portion of the channel reach than in the lower. An intermediate gage between the Poplar diversion and Woods Central would be beneficial to understand the volume of infiltration losses above and below this point.

- Tule River at McCarthy Check - Channel infiltration losses between the Rockford Station and the Turnbull Weir are not well documented. An additional gage at the McCarthy Check at Road 96 (see Figure A1-8) would provide additional information on the channel losses upstream of this point and between McCarthy Check and Turnbull Weir.

- Deer Creek at Friant-Kern Canal – While the releases of imported water from the Friant-Kern Canal to the Deer Creek channel are well documented, the channel infiltration losses

between the Friant-Kern Canal and the Trenton Weir are not. An additional gage immediately upstream of the Friant-Kern Canal would enable the measurement of flows attributed to both imported water and natural stream flow as well as a better estimate of channel losses between these two points.

- Deer Creek at Homeland Canal – Stream flows at the downstream end of Deer Creek periodically reaches, and are discharged to, the Homeland Canal (see Figure A1-8). The nature and historical records of this discharge are not available and present a data gap for the surface water budget of the subbasin. Further, a gage record at this location would provide information on streambed infiltration during periods of time when surface water in Deer Creek reaches Homeland Canal.

- White River – Historical stream flow in the White River has been measured by the USGS at the gage near Ducor (see Figure A1-8). However, this gage is no longer active leaving a data gap for the volume of surface water entering the subbasin from this river (current estimates of flow into the subbasin are based on correlations with flows of Deer Creek). Further, there are no established gages downstream of this point.

Recommended Surface Water Monitoring Features to Fill the Data Gaps §354.38 (d)

The following surface water monitoring features are recommended to address the surface water data gaps:

- Tule River – Establish a rated section of channel, concrete weir structure and water stage recorder at an appropriate location between the Poplar diversion and the Rockford Station gage; and establish a rated section of channel, concrete weir structure and water stage recorder at the McCarthy Check.

- Deer Creek – Establish a stream gage immediately upstream of the Friant-Kern Canal to enable the portion of flow in the channel attributed to native stream flow and the portion attributed to imported Central Valley Project releases. Investigate the discharge structure at the Deer Creek inlet to Homeland Canal and develop a gaging station.

- White River – Refurbish and reinstate the USGS gage immediately east of the Tule Subbasin boundary near Ducor. Establish a rated section of channel, concrete weir structure and water stage recorder at Road 208 (if this has not already occurred).

5.0 Tule Subbasin Data Management System

Efficient data management will be a critical aspect of the Coordination Agreement in order to ensure that each GSA can access the data needed to prepare their respective annual reports in a timely manner and to ensure that the Tule Subbasin TAC can meet deadlines for submittal of the coordinated reports. Data to be managed will include:

A. Historical data used as a basis for the Water Budget of the Tule Subbasin.
B. Data to be collected in accordance with the Tule Subbasin Monitoring Plan.

Both historical and future data collected as part of this TSMP will be stored in a single comprehensive electronic database. This section satisfies § 352.6 of SGMA Regulations, which requires each agency to develop and maintain a data management system (DMS) that is capable of storing and reporting information relevant to the development and implementation of the plan and monitoring of the basin. The following table outlines the sections of the Tule Subbasin DMS as they relate to the various components of the SGMA Regulations.

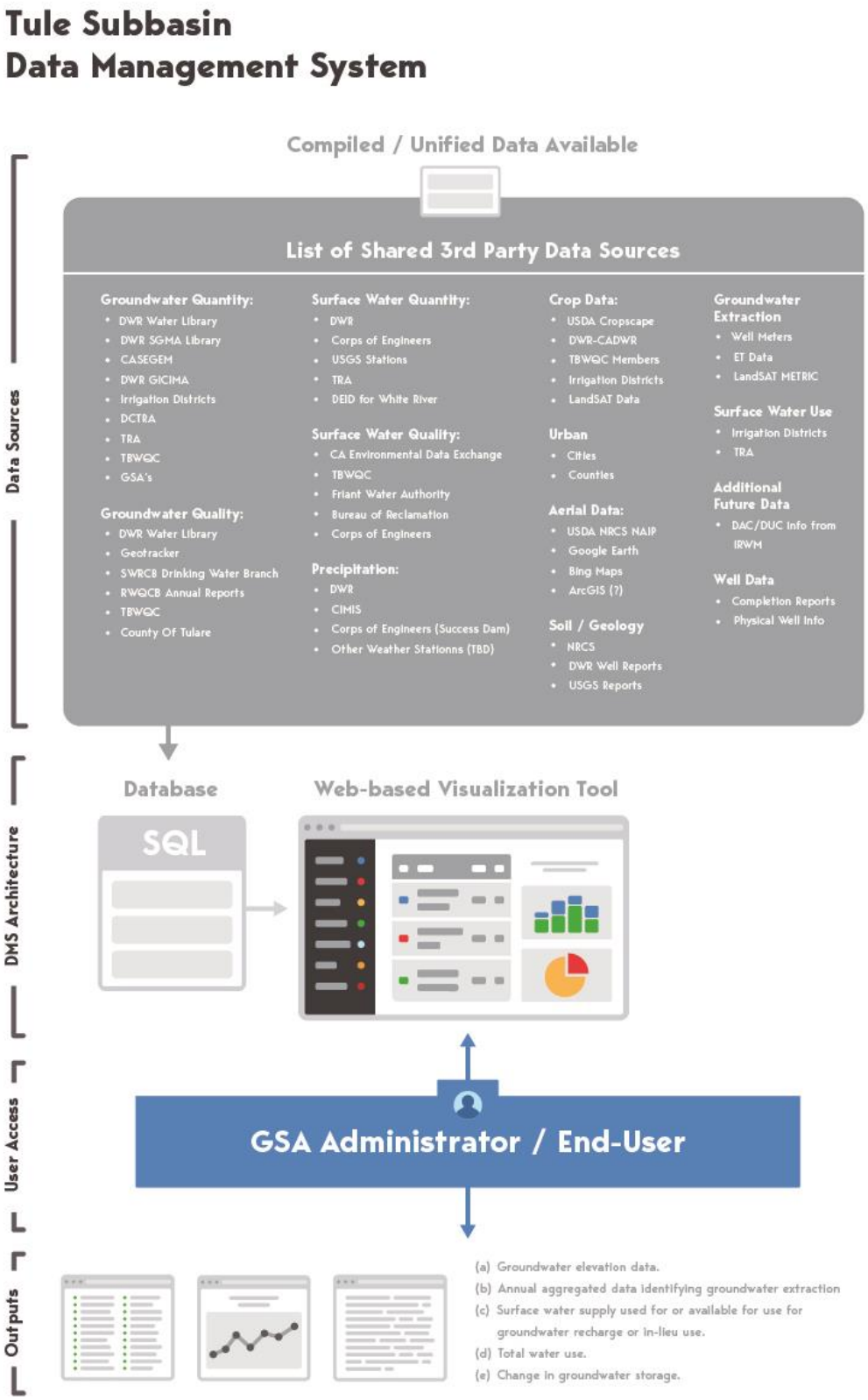
Table A1-6 – Tule Subbasin DMS SGMA Requirements

Tule Subbasin DMS SGMA Requirements		
SGMA Regulation Section No.	Coordination Agreement Corresponding Section	Description
§ 352.4	Section 5.2	Data and Reporting Standards
§ 352.6	Section 5	Data Management System
§ 353.4	Section 5.2.4.2	Reporting Provisions
§ 354.4	Section 5.2.4.2	Reporting Monitoring Data to the Department
§ 356.2	Section 5.2.4.2	Annual Reports

5.1 Overview of Tule Subbasin Data Management System

The Data Management System will allow users to view program data in comparison with all publicly available data from federal, state, and local jurisdictions to make the most informed decisions. Users will be able to submit, query, view, and analyze data as needed. The Tule Subbasin Data Management System (DMS) is comprised of two separate coordinated systems that include a SQL server and a web-based visualization platform. SQL will function as the storage and retrieval system to display the data in the web-based visualization platform. Users will have access to data sets through the web-based platform, to export data, import data, and view data in a dashboard format.

Figure A1-9 Data Management System Overview



5.2 Functionality of the Data Management System

The DMS will be comprised of various tools designed to assist GSAs in the development and implementation of their groundwater sustainability plans. At its Core, the DMS is a data storage system which grants users access to interact and upload data required to comply with SGMA regulations. Guiding the implementation of the DMS are the rules laid out in the following sections.

5.2.1 User and Data Access Permissions

User data access and permissions will be based on the predetermined user type and data source by the system administrator. User types include:

- System Admin - Users with this permission can perform all administrative functions.
- SGMA End-User - Users with this permission can perform all APN / Parcel Level functions and have access to Basin Level and GSA Level Public Data.
- End User Delegate - Users with this permission can perform all APN / Parcel Level functions and have access to Basin Level and GSA Level Public Data.
- GSA Staff - Users with this permission can perform all Farm Level and GSA Level functions and have access to Basin Level Public Data.
- GSA Manager - Users with this permission can perform all APN / Parcel Level and GSA Level functions and have access to Basin Level Public Data.
- Public User - Users may view published data but cannot import or edit information

Data viewing and access will be limited on geographic extent based on the user, such as a landowner will only be able to view data for land he/she owns or an administrator of the GSA can view data for the GSA he/she represents. Data from private or user sources will be protected in the system while publicly available data will be available basin wide. Data Source types include:

- Public - Federal, State, or local published data
- Private - District or agency specific data
- Shared - SGMA data available for all users of DMS excluding public users
- User - user specific data
- DMS - Data available from other programs (IRLP)
- Published - Data from SGMA/GSA sources available for public consumption

5.2.2 Data Entry and Validation

To encourage agency and user participation in the DMS, data entry and import tools are easy-to-use, accessible via web-based interface, and help maintain data consistency and standardization.

The DMS allows GSA Administrators and Users to enter data either manually via easy-to-use interfaces, or through an import tool utilizing standardized Microsoft Excel templates, ensuring data may be entered into the DMS consistently. The data imported will require validation by the managing GSAs Administrators or Users using a number of quality control checks prior to final import into the DMS. All data included in the system will comply with data standards laid out in § 352.4 of the SGMA Act.

5.2.2.1 Data Collection

The Tule Subbasin DMS is populated with data from various sources including public, private, contributing DMSs, and user data. Data collected in accordance with the Tule Subbasin Monitoring Plan as well as data regarding key water management areas, include:

- Precipitation
- Evapotranspiration
- Surface water flow
- Groundwater levels
- Groundwater quality
- Groundwater extraction
- Imported water deliveries
- Managed recharge
- Land surface elevation
- Land Subsidence measurements

5.2.2.2 Monitoring Data Entry (QA / QC)

For purposes of this plan, quality assurance (QA) is defined as the integrated program designed to assure reliability of monitoring and measurement data. Quality control (QC) is defined as the routine application of specified procedures to obtain prescribed standards of performance in the monitoring and measurement process.

Different monitoring protocols exist for the various data types stored in the DMS. Public sources included in the DMS as published from the source and referenced as such. User entry and private sourced data will be closely monitored for formatting and accuracy, in addition requiring chain of custody and acknowledgement of following protocols defined in the Monitoring Plan. These sources will be required to submit through pre-established forms to maintain the validity of the DMS.

5.2.2.3 Data Validation

Data Validation is required for non-public sources and will be performed in the following ways:

- **Standardized Form Input:** meant to comply with what is required by law

- **Using known possible values for a dataset:** This would represent a baseline range of what can be typed into an input. Ex: Parcels Assessed Acreage vs Irrigated Acreage
- **Data/Field Normalization:** Establishing unit consistency between datasets. The DMS will keep a normalized value behind the scenes for each variation of a reported unit. Regular Expressions on inputs to control the type/format of information being submitted to the DMS.
- **Outlier filtering:** Outlier filtering when interacting with publicly available data or data that has been mass imported. Using Statistical Analysis methods, any statistical outliers will be filtered out of reports unless the end user opts to have them included.

5.2.3 Visualizations and Analysis

The DMS will host a robust visualization and analysis component to allow end users the ability to view and provide context to the data. This can be performed in Map and Tabular views, as shown in Figure A1-10.

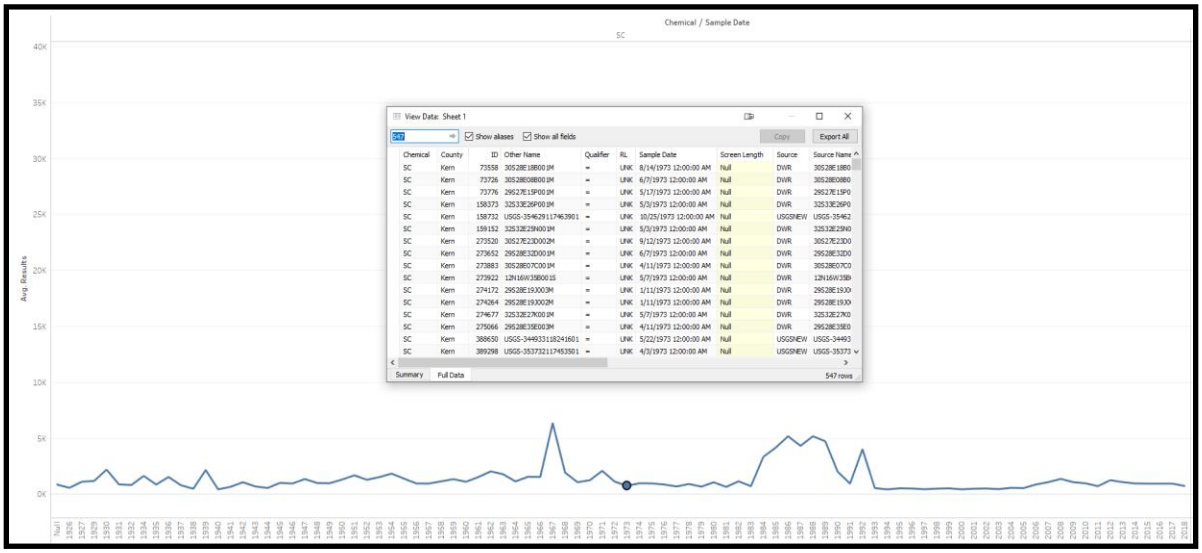


Figure A1-10: DMS Data Visualization Example - Average Specific Conductivity by Year within the Tule Sub Basin.

5.2.3.1 Map View

Map view in the DMS will allow users to visualize data that has spatial characteristics (wells, stream gages, precipitation stations, etc). **Figure A1-11** is an example of well data in the DMS. In map view users can scroll around the selected source data and click on the sites to bring up site specific information.

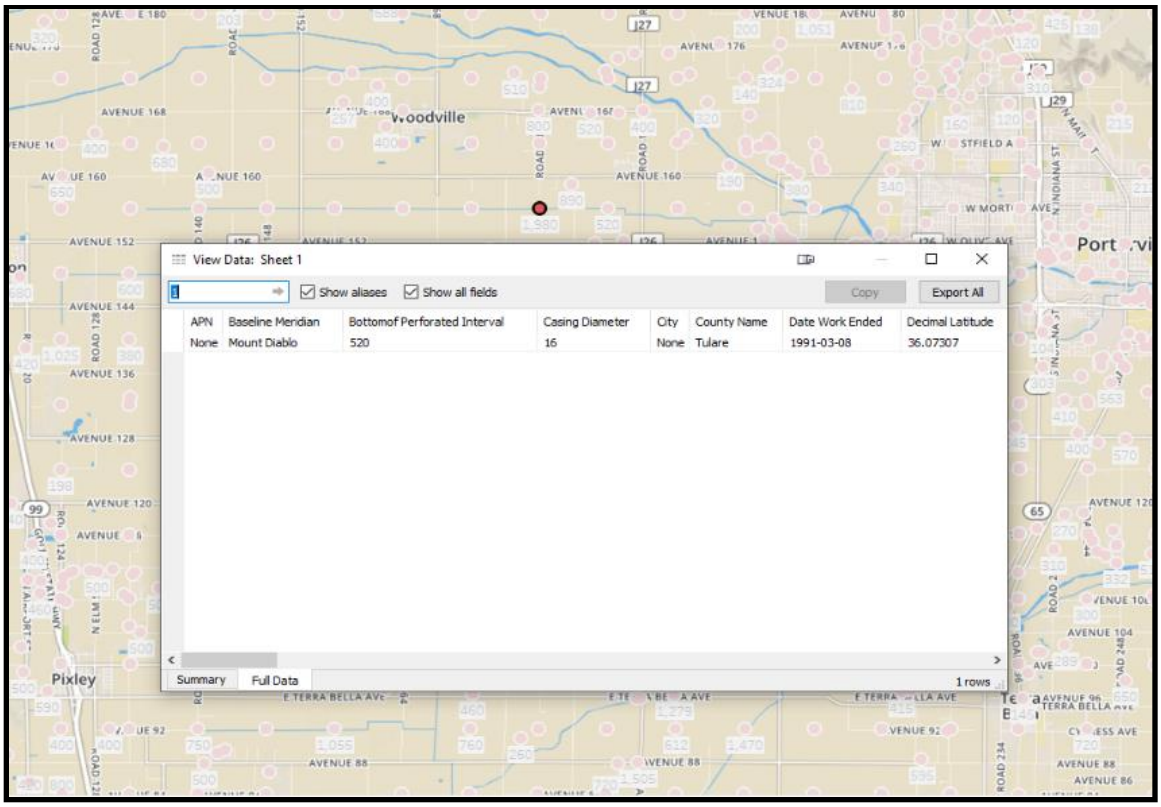


Figure A1-11: DMS Map View Example - Total Completed Well Depth Map

5.2.3.2 List View

List view presents all the data of a given dataset in tabular form. It will allow users to see all the data in the chosen data set and their attributes. Data is able to be filtered for specific attributes, geographic extent, and various other criteria.

5.2.4 Query and Reporting

Data in the DMS can be queried and reporting using various filtering and querying tools. The options are dependant on the source of the data. Reports can be prepared from the queried DMS for various formats based on the submitting agency.

5.2.4.1 Ad-hoc Query

As a relational database the DMS will have the ability to be queried by users with designed limitations for various end users (see section 5.2.1). Putting these limitations aside, any data included in the DMS can be queried based on the attributes which adhere to the data source (i.e data type, data source, parameters, geographic location, etc.). See **Figures A1-12 and A1-13** for querying examples.

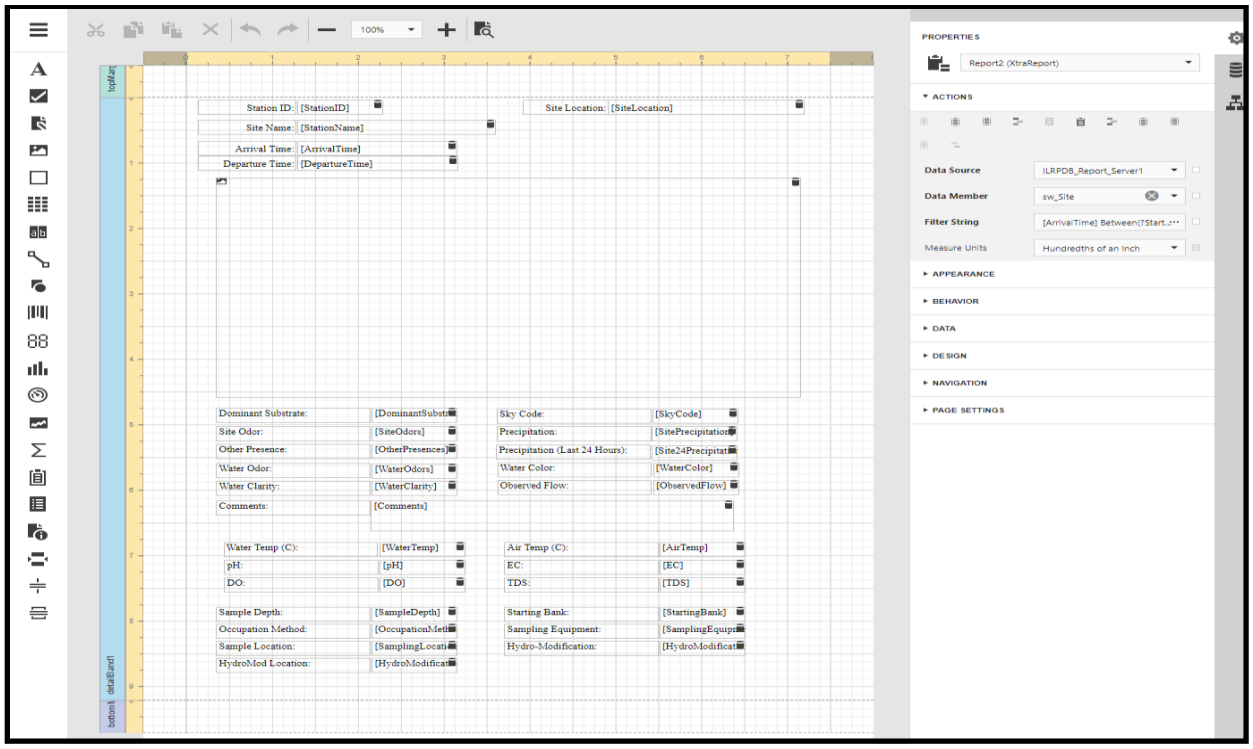


Figure A1-12: Ad Hoc Report Builder Designer View

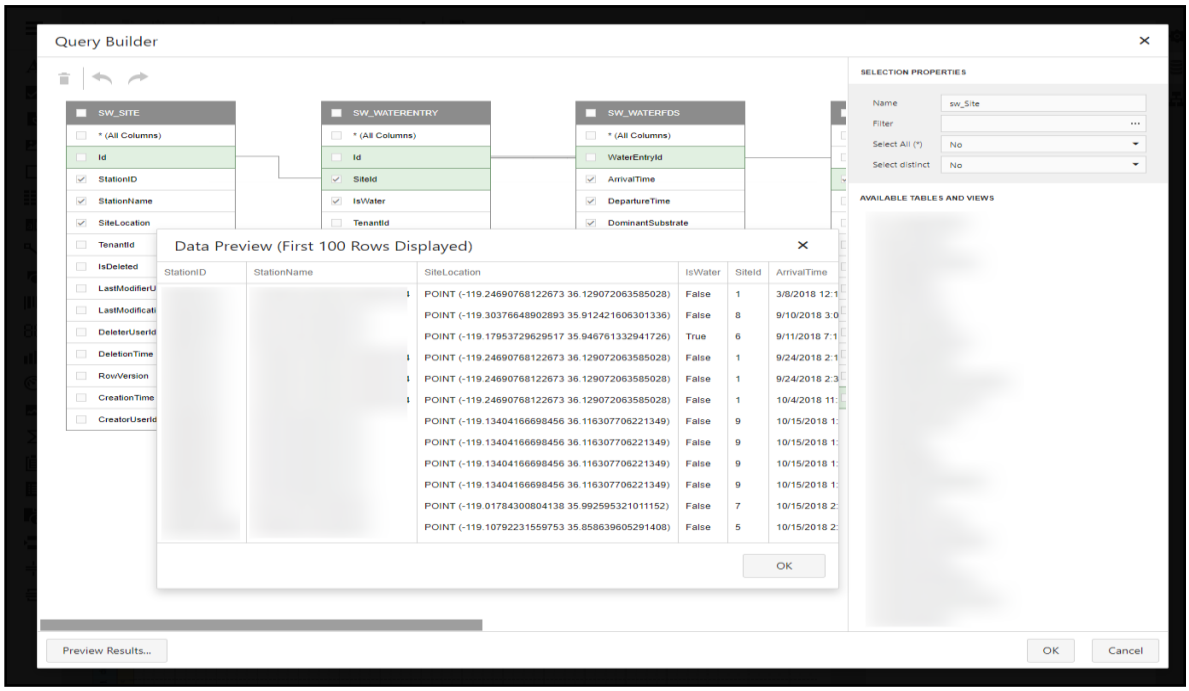


Figure A1-13: Redacted Ad Hoc Query Builder Example

5.2.4.2 Standard Reports

Standard report chart and table formats such as those included in the annual and 5-year reports can be generated utilizing the DMS. Additional reporting requirements can be created by end users. In order to provide end users with flexibility in reporting, the tools are intended to be self-serviced by the end-users. End-users will be able to create their own reports using data they have permission to access.

If commonality is discovered between participating agencies, a Standardized report can be created and shared with all agencies that as required. All generated reports and reporting tools will be built to comply with § 352.4 of the SGMA Act.

5.3 Data Included in the Data Management System

Table A1-7: Summary of Data included in DMS identifies the specific data type, the source of the data, and entry of the data in to the DMS.

Table A1-7: Summary of Data

Data Type	Source Name		Entry Type
Groundwater Quantity	DWR Water Library		Public Source
	DWR GICIMA		Public Source
	CASGEM		Public Source
	Irrigation Districts		Private Source
	DCTRA		Private Source
	TRA		Private Source
	TBWQC		DMS Transfer
	GSA'S		
	>	LTRID GSA	User Entry
	>	Pixley GSA	User Entry
	>	ET GSA	User Entry
	>	DEID GSA	User Entry
	>	Tri- County GSA	User Entry
		Tulare County GSA	User Entry

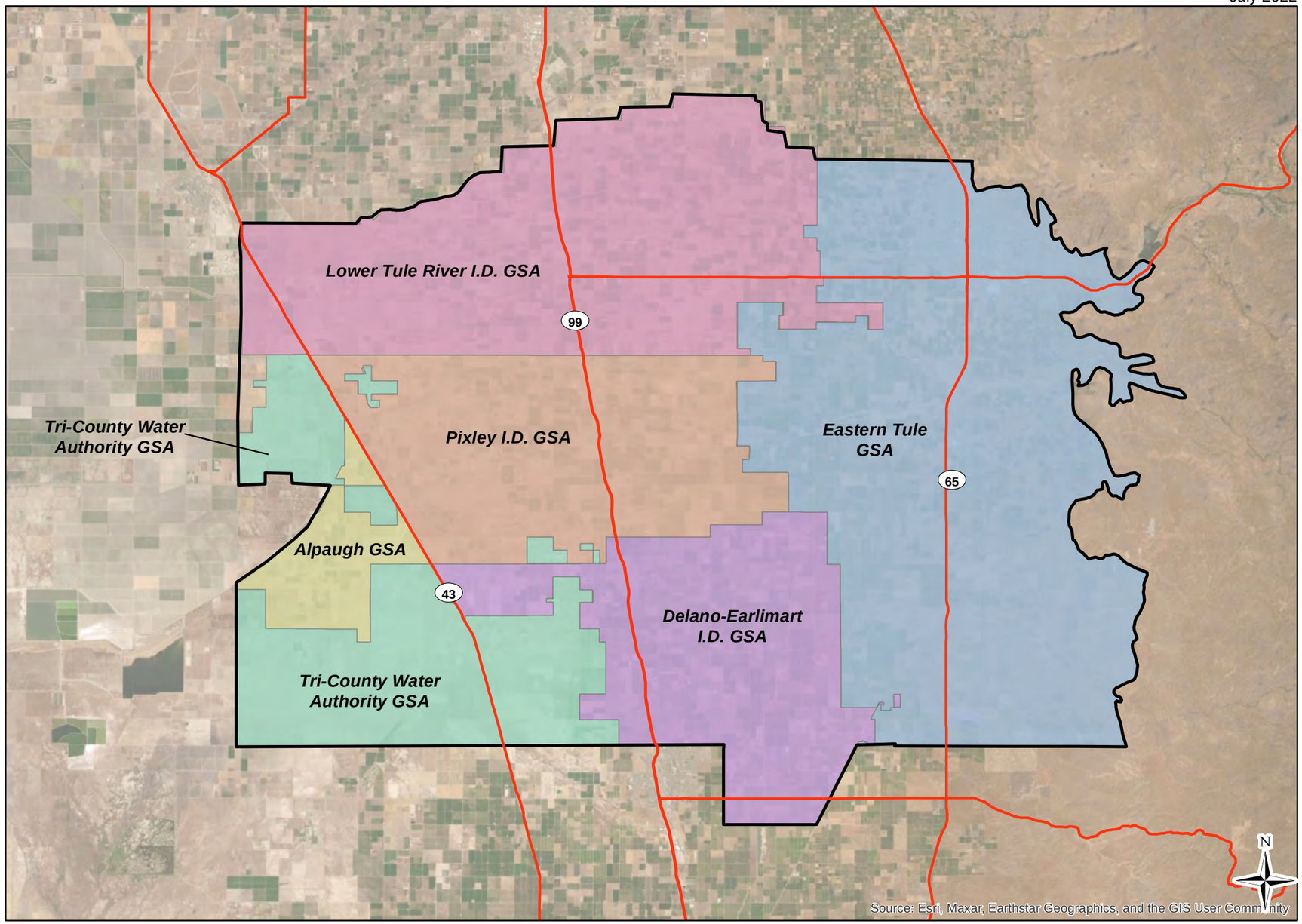
	>	Alpaught GSA	User Entry
Groundwater Quality	DWR Water Library		Public Source
	GAMA Geotracker		Public Source
	SCWRB Drinking Water Branch		Public Source
	RWQCB Annual Reports		Public Source
	TBWQC		Public Source
	County of Tulare		Public Source
Surface Water Quantity	Army Corps of Engineers		Public Source
	USGS Gaging Stations		Public Source
	Bureau of Reclamation		Public Source
	Tule River Authority		Private Source
	DWR - CDEC Stations		Public Source
Surface Water Quality	CA Environmental Data Exchange		Public Source
	TBWQC		DMS Transfer
	Friant Water Authority		Public Source
	Corps of Engineers		Public Source
Precipitation	DWR		Public Source
	CIMIS		Public Source
	Corps of Engineers		Public Source
	TBD		N/A
Crop Data	USDA Cropscape		Public Source
	DWR-CADWR		Public Source
	TBWQC Members		DMS Transfer
	Irrigation Districts		Public Source
	FMMP		Public Source
	LandSAT		Public Source
Urban	Cities		Public Source
	Counties		Public Source

Soil/Geology	NRCS	Public Source
	DWR Well Reports	Public Source
	USGS Reports	Public Source
Subsidence	USGS	Public Source
	TBWQC	Public Source
	UNAVCO	Public Source
Groundwater Extraction	Well Meters	TBD
	ET Data	DMS Transfer
	LanSAT Metric	DMS Transfer
Surface Water Use	Irrigation Districts	Private Source
	TRA	Private Source
Future Sources	DAC/DUC IRWM Info	Private Source
Well Data	Well Completion Reports	Annually
	Physical Well Info	TBD

Figures

Tule Subbasin

July 2022



0 2.5 5 10 Miles

NAD 83 State Plane Zone 4

Thomas Harder & Co.
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Tule Subbasin Monitoring Plan

Map Features

- Delano Earlimart ID GSA
- Tri-County Water Authority GSA
- Alpaugh GSA
- Lower Tule River ID GSA
- Pixely ID GSA
- Eastern Tule GSA
- Basin Boundary
- State Highway

GSA Boundaries from:
http://sgma.water.ca.gov/portal/#gsa
Accessed 18-Jul-17

Area Map

Figure A1-1

Tule Subbasin

July 2022

T.20S.
T.21S.
T.22S.
T.23S.
T.24S.
T.25S.

LTRID TSS U
LTRID TSS M
LTRID TSS L
01F01
03R01
20S/26E-32
E0264833
E0212720
489364
243330
488430
21S/27E-18M01
11P01
14P01
488425
153207
E0114156
508057
C-10
E0078229
C-16
C-1
Mike Knight
EP-5
21S/23E-31
E0047650
14N01
21S/23E-25
30D02
129332
35A01
32A01
R-11
R-6
29615
E0252293
E0291815
36R01
33J01
36A01
Avenue 144
21S/25E-36
21S/26E-32B02
32K01
21S/26E-34
C-27
942425
03H01
09A01
01Q01
10E01
AP-2
65
10J01
22S/23E-16
22S/23E-09
E072308
99
15A01
415133
13A01
07Q01
13R01
22S/27E-16
E0334821
G1
G23
E18
E14
E20
20A01
22S/25E-30
22S/26E-24
30D02
E0117085
30J01
G13
W9
W13, W14
G28
E21
E10
E12
23J01
25N01
25J01
516902
W11
W16
43
TSMW 1L
724662
E076023
E01033591
01J01
E005996
783364
23S/27E-07
12J01
481234
23S/28E-04K01
23S/25E08G01
23S/26E-11
16N04
TSS PIDGSA-01 U
TSS PIDGSA-01 L
Well 53
Well 51
27C01
30B01
956181
33A02
Well 55
28J02
23S/25E-27
23S/26E-29D01
23R01
23S/27E-27
785622
1095876
25N01
03A01
E0083349
34Q01
E0070434
04E02
1G
23S/25E-36H01
04P01
915227
01R01
M-19
08L01
TSMW-5L
TSMW-5U
24S/24E-14R
13F01
E0060486
TSMW-6L
TSMW-6SM
E0052358
24S/27E-23
24S/24E-22M
24S/25E-19R
24S/26E-11
20P01
22P01
22E01
E0083113
118722
26F01
22R02
E0077871
24S/25E-35H01
32G01
489110
32K01
31N1
E0346058
36J01
24S/27E-34
35P01
35P01
32M01
25S/26E-08D01
25S/26E-09C01
Garces Hwy

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

R.22E. R.23E. R.24E. R.25E. R.26E. R.27E. R.28E. R.29E.

N

0 2.5 5 10 Miles

NAD 83 State Plane Zone 4

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Tule Subbasin Monitoring Plan

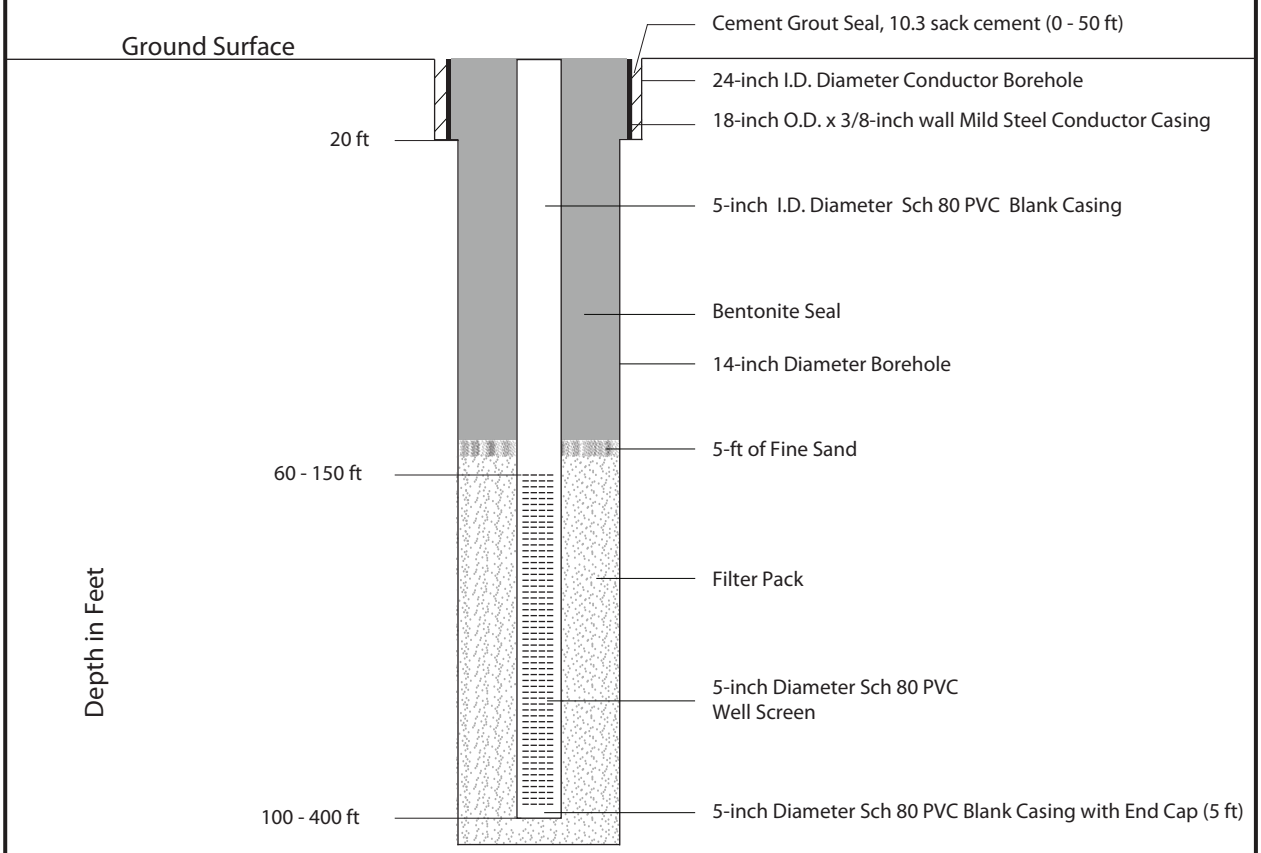
Map Features

- Upper Aquifer Well
- Upper Aquifer RMS Well
- Lower Aquifer Well
- Lower Aquier RMS Well
- Composite Aquifer Well
- Composite Aquifer RMS Well
- Santa Margarita Well
- Santa Margarita RMS Well
- Alpaugh GSA
- Delano-Earlimart I.D. GSA
- Eastern Tule GSA
- Lower Tule River I.D. GSA
- Pixley I.D. GSA
- Tri-County Water Authority GSA
- Basin Boundary
- Canal
- Friant-Kern Canal
- State Highway
- Major Hydrologic Feature

: Areas targeted for future monitoring wells.

Groundwater Level Monitoring Network

Figure A1-2



Note:
1. Not to Scale.
2. Centralizers to be placed every 60 ft in screened sections only.
3. Casing to include at least one compression section.

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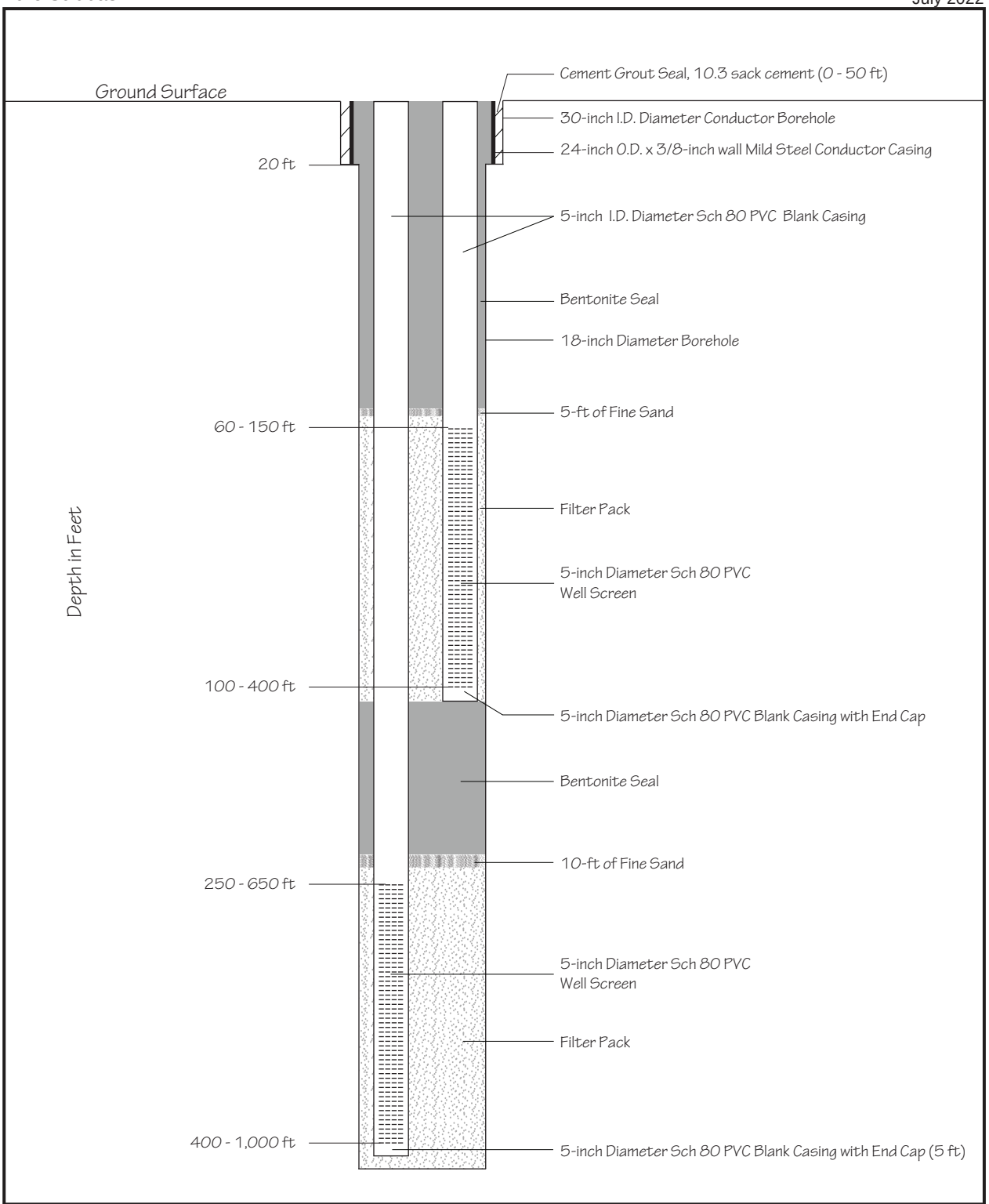
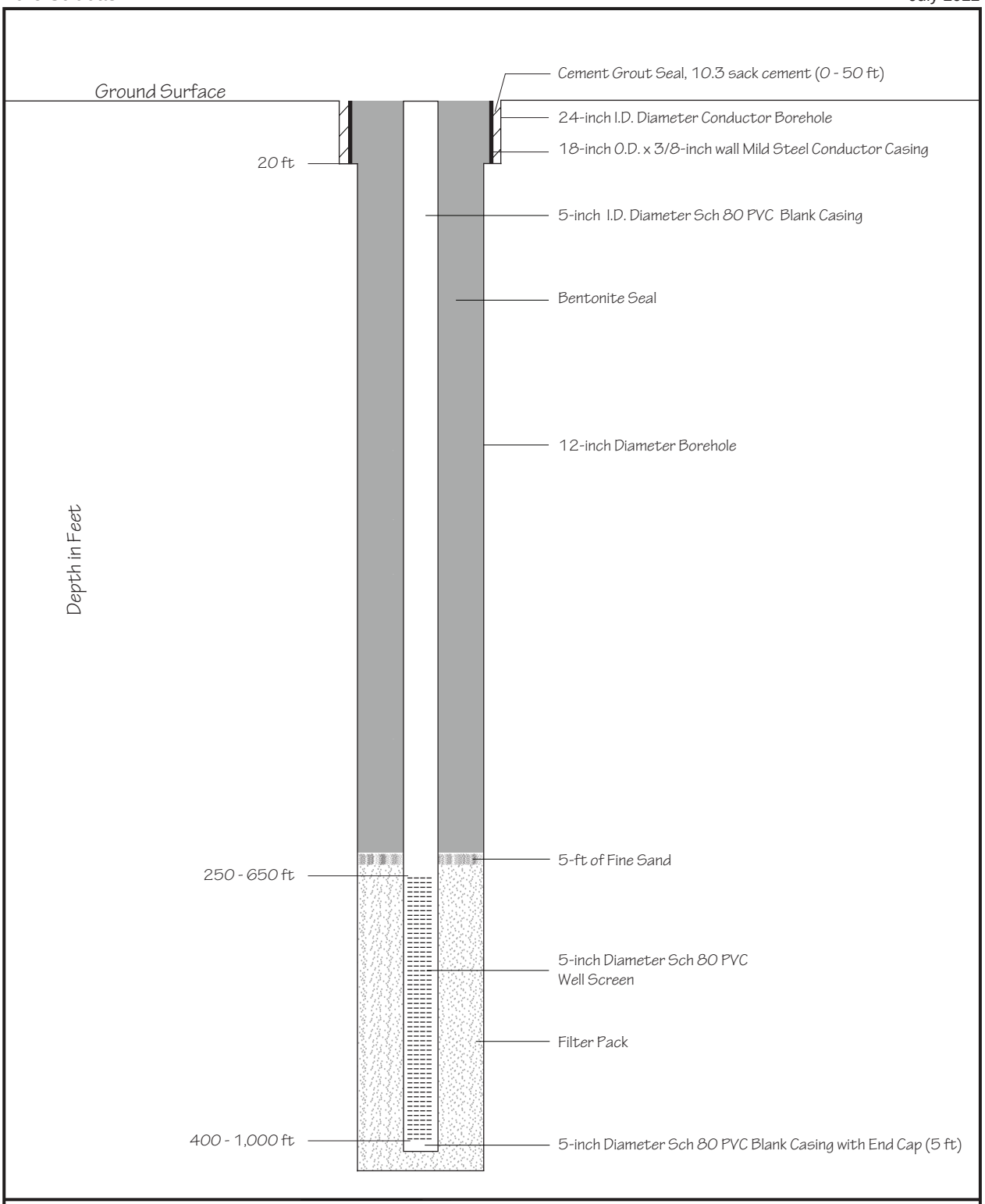
Figure A1-3
Conceptual Upper Aquifer Well Construction Diagram



Note:
1. Not to Scale.
2. Centralizers to be placed every 60 ft in screened sections onlu.
3. Each casing to include at least one compression section.

Figure A1-4
Conceptual Nested Well Construction Diagram



Note:
1. Not to Scale.
2. Centralizers to be placed every 60 ft in screened sections only.
3. Casing to include at least one compression section.

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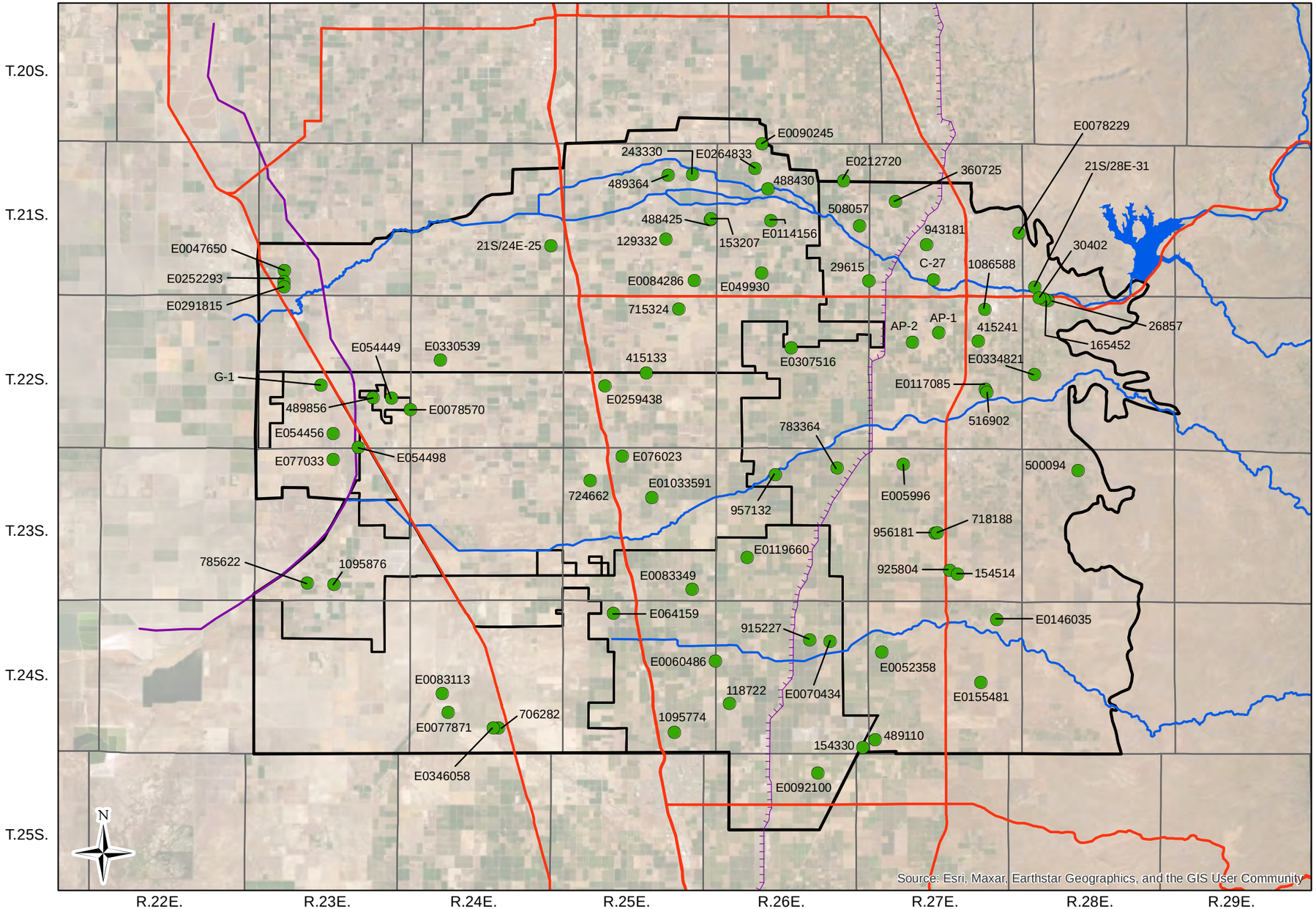
Figure A1-5
Conceptual Lower Aquifer Well Construction Diagram

Tule Subbasin

July 2022



Tule Subbasin Monitoring Plan

Map Features

- Groundwater Quality Well Location
- Canal
- Friant-Kern Canal
- Basin Boundary
- GSA Boundaries
- State Highway/Major Road

Well Location data from:
Tule Basin Water Quality Coalition, 2017

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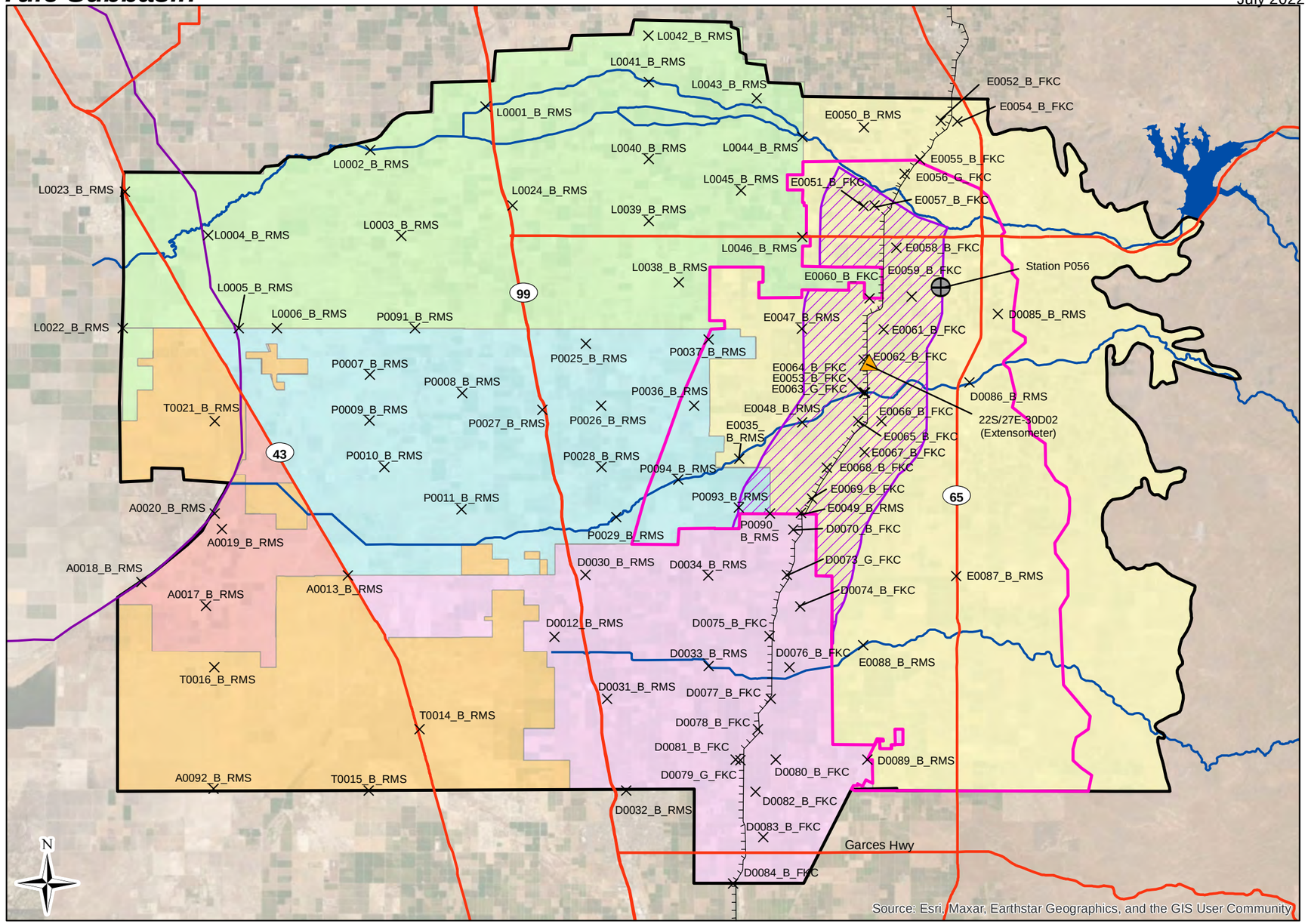
Groundwater Quality Monitoring Network

Figure A1-6

Tule Subbasin

July 2022



0 2 4 8 Miles

NAD 83 State Plane Zone 4

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Tule Subbasin Monitoring Plan

Map Features

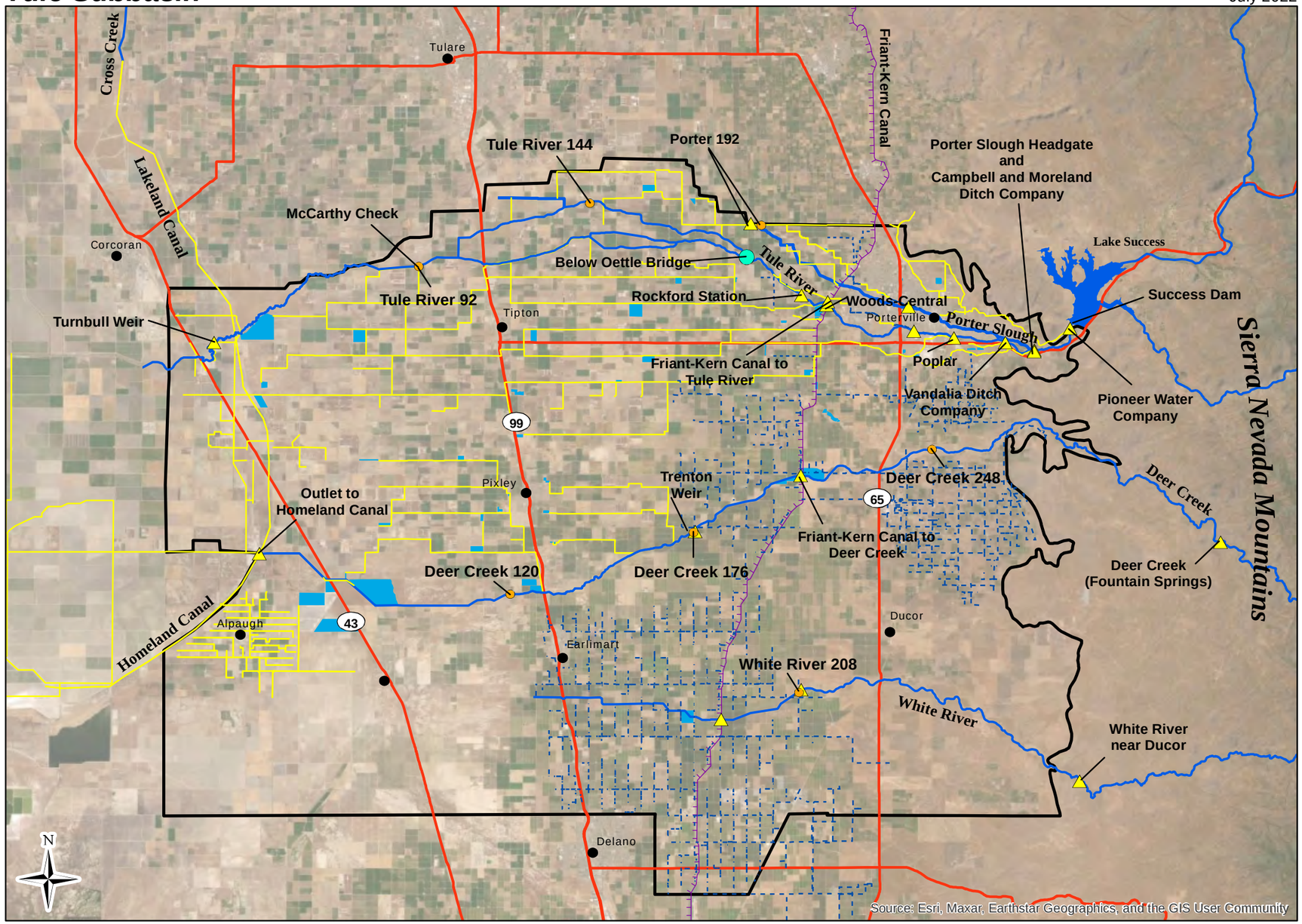
- Land Surface Elevation RMS
- Extensometer
- GPS Station
- Alpaugh GSA
- Delano-Earlimart I.D. GSA
- Eastern Tule GSA
- Lower Tule River I.D. GSA
- Pixley I.D. GSA
- Tri-County Water Authority GSA
- Friant-Kern Canal and California Aqueduct
- Canal
- ETGSA Monitored Area
- ETGSA Management Area
- Basin Boundary
- State Highway

Land Surface Elevation Monitoring Network

Figure A1-7

Tule Subbasin

July 2022



0 2.5 5 10 Miles

NAD 83 State Plane Zone 4

Tule Subbasin Monitoring Plan

Map Features

- Surface Water Sampling Site
- Surface Water Measurement Location
- Surface Water Diversion Location
- Friant-Kern Canal and California Aqueduct
- Canals
- Pipe
- State Highway
- Major Hydrologic Feature
- Basin Boundary
- Artificial Recharge Basin
- City or Community

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Surface Water Monitoring Features

Figure A1-8

Tables

Summary of Existing Upper Aquifer RMS Wells

CASGEM State Well Number	Short State Well Number	Well Name/ Well Log	Owner	Borehole Depth (ft bgs)	Casing Depth (ft bgs)	Top of Perforations (ft bgs)	Bottom of Perforations (ft bgs)	Aquifer[1]	Groundwater Level Record	X-Coordinate[2] (ft)	Y-Coordinate[3] (ft)
21S23E32K001M	21S/23E-32K01	32K01	N/A[4]	N/A[5]	406	104	402	U	1973 - 2016	6412096	1903994
21S24E35A001M	21S/24E-35A01	35A01	N/A	328	328	245	302	U	1954 - 2018	6461001	1906318
21S25E03R001M	21S/25E-03R01	03R01	N/A	328	274	145	238	U	1961 - 2016	6487724	1929460
N/A	21S/26E-34	Poplar CSD	N/A	400	400	120	400	U	N/A	6519268	1903301
22S26E13R001M	22S/26E-13R01	13R01	N/A	385	380	240	380	U	1960 - 2017	6529369	1886156
22S27E13A001M	22S/27E-13A01	13A01	Robert Job	400	400	120	380	U	1945 - 2017	6561151	1890683
23S24E28J002M	23S/24E-28J02	28J02	N/A	500	500	200	500	U	1953 - 2017	6450366	1846351
23S25E16N004M	23S/25E-16N04	16N04	USGS	250	240	200	240	U	1959 - 1982	6476961	1854788
24S26E04P001M	24S/26E-04P01	04P01	N/A	402	393	216	393	U	1979 - 2014	6511204	1834634
N/A	22S/23E-25C01	E20	Angiola W.D.	500	490	240	480	U	2008 - 2017	6430745	1880707
N/A	N/A	C-1	City of Porterville	330	240	120	240	U	1982 - 2017	6557099	1909024
N/A	N/A	R-11	City of Porterville	216	216	0	216	U	1984 - 2016	6531833	1909116
N/A	N/A	M-19	DEID	810	N/A	200	350	U	2017	6505880	1830731
22S24E23J001M	22S/24E-23J01	23J01	N/A	400	N/A	N/A	N/A	U	1947 - 2013	6461034	1883355
22S25E25N001M	22S/25E-25N01	25N01	N/A	437	N/A	N/A	N/A	U	1959 - 2018	6494108	1875965
N/A	24S/23E-22E01	22E01	N/A	N/A	N/A	N/A	N/A	U	1980 - 2007	6419302	1820863
24S26E32G001M	24S/26E-32G01	32G01	N/A	470	N/A	N/A	N/A	U	1932 - 2009	6507272	1810870
N/A	21S/26E-32B02	E049930	Jeremy Blackwell	N/A	280	200	260	U	N/A	6507607	1906658
N/A	24S/25E-35H01	1095774	Jonathan Martin	N/A	340	160	320	U	N/A	6489675	1809760
N/A	23S/26E-29D01	E0119660	N/A	N/A	300	160	300	U	N/A	6504558	1847673
N/A	21S/27E-18M01	360725	David Fenn	N/A	300	150	300	U	N/A	6535326	1921533
N/A	N/A	TSMW 5U	Tule Subbasin TAC	310	285	170	280	U	2020 - 2021	6413232	1823570
N/A	N/A	TSS PIDGSA-01 U	Tule Subbasin TAC	1,020	260	180	250	U	2021	6492776	1857661
N/A	23S/25E-08G01	08G01	N/A	N/A	420	320	420	U	2021	6471859	1863508
N/A	N/A	LTRID TSS U	Tule Subbasin TAC	1525	290	150	280	U	2020 - 2021	6469280	1930833
N/A	N/A	21S/23E-31	N/A	N/A	400	200	400	U	2021	6408325	1907222
N/A	N/A	36201	N/A	N/A	399	301	399	U	2003 - 2011	6521736	1830641

Notes:

[1] U = Well Perforated in Upper Aquifer

[2] X-Coordinates in State Plane Zone 4 (feet)

[3] Y-Coordinates in State Plane Zone 4 (feet)

[4] N/A = Not Available

Summary of Existing Lower Aquifer RMS Wells

CASGEM State Well Number	Short State Well Number	Well Name/ Well Log	Owner	Borehole Depth (ft bgs)	Casing Depth (ft bgs)	Top of Perforations (ft bgs)	Bottom of Perforations (ft bgs)	Aquifer[1]	Groundwater Level Record	X-Coordinate[2] (ft)	Y-Coordinate[3] (ft)
22S24E01Q001M	22S/24E-01Q01	01Q01	N/A[4]	720	700	480	700	C	1963 - 2016	6465168	1896727
24S24E03A001M	24S/24E-03A01	03A01	N/A	1,602	1,602	804	1,602	L	1961 - 2014	6455570	1838610
N/A[5]	22S/23E-27F01	G13	Angiola W.D.	N/A	1,604	782	1,604	L	1962 - 2017	6420049	1878149
N/A	E0117919	M-19	DEID	810	N/A	705	805	L	2017	6505880	1830731
N/A	22S/23E-07	E0094101	Artesia Dairy Farm	1,020	1,000	660	1,000	L	N/A	6408375	1891526
N/A	22S/26E-24	E0094537	Gill & Sons Farm	1,270	1,240	670	1,220	L	N/A	6529798	1881999
N/A	23S/26E-23R01	23R01	A.L.G. Enterprises	1,720	1,700	600	1,700	L	N/A	6523098	1849144
24S23E22R002M	24S/23E-22R02	22R02	N/A	1,205	1,200	500	1,200	L	N/A	6423826	1817704
N/A	N/A	C-16	N/A	560	548	240	548	C	N/A	6546906	1912287
N/A	N/A	E0090245	N/A	N/A	680	320	680	L	N/A	6507628	1933560
N/A	N/A	489110	Richgrove CSD	N/A	850	480	830	C	N/A	6530537	1812175
N/A	N/A	E0155481	Jeremy Blackwell	N/A	1,500	1,090	1,500	L	N/A	6553106	1821699
N/A	23S/27E-27	925804	Tom Day	N/A	1,405	1,035	1,385	SM	N/A	6546617	1843950
N/A	N/A	E0084286	Doug Van Beek	N/A	650	320	640	L	N/A	6493618	1905179
N/A	N/A	E0259438	George Rispens	N/A	840	340	840	C	N/A	6475060	1883261
23S23E25N001M	23S/23E-25N01	25N01	N/A	N/A	N/A	N/A	N/A	L	1990 - 2017	6429320	1845090
N/A	N/A	Well 55	Alpaugh I.D.	N/A	1459	707	1459	L	2014 - 2021	6432067	1849112
N/A	N/A	TSMW 5L	Tule Subbasin TAC	1,010	955	670	950	L	2020 - 2021	6413230	1823473
N/A	N/A	LTRID TSS M	Tule Subbasin TAC	1,525	815	610	805	L	2020 - 2021	6469276	1930846
N/A	N/A	LTRID TSS L	Tule Subbasin TAC	1,525	1480	1100	1470	L	2020 - 2021	6469280	1930941
N/A	N/A	TSS PIGDSA-01 L	Tule Subbasin TAC	1,020	1015	400	1005	L	2021	6492772	1857661
N/A	23S/25E-36H01	36H01	N/A	N/A	600	360	600	L	2021	6497755	1841331
N/A	25S/26E-09C01	09C01	N/A	N/A	1002	450	1002	L	2021	6509077	1797598
N/A	24S/27E-32M01	32M01	N/A	N/A	1800	1002	1800	SM	2013 - 2022	6536532	1808343
N/A	N/A	TSMW 6L	Tule Subbasin TAC	610	605	350	600	L	2020 - 2021	6539199	1822265
N/A	N/A	TSMW 6SM	Tule Subbasin TAC	2,000	1955	1600	1950	SM	2020 - 2021	6539197	1822172
N/A	N/A	TSMW 1L	Tule Subbasin TAC	1,010	1005	550	1000	L	2021	6455531	1866659
N/A	N/A	E0174371	N/A	N/A	800	300	800	C	2020 - 2021	6487403	1846609
N/A	23S/28E-04K01	04K01	N/A	N/A	530	160	530	C	2020 - 2021	6573264	1865684

Notes:

[1] L = Well Perforated in Lower Aquifer
C = Well Perforated Across Multiple Aquifers (i.e. Composite)
SM = Well Perforated in Santa Margarita Aquifer

[2] X-Coordinates in State Plane Zone 4 (feet)

[3] Y-Coordinates in State Plane Zone 4 (feet)

[4] N/A = Not Available

Groundwater Quality Trend Monitoring Constituents

Annual Sampling				Five Year Sampling			
Field Analysis	**Units**	**Laboratory Analysis**	**Units**	**Field Analysis**	**Units**	**Laboratory Analysis**	**Units**
Electrical Conductivity (EC)	µmhos/cm[1] (at 25˚C)	Nitrate as N	mg/L	Electrical Conductivity (EC)	µmhos/cm (at 25˚C)	Total Dissolved Solids (TDS)	mg/L
pH	Standard Unit	-	-	pH	Standard Unit	Nitrate as N	mg/L
Dissolved Oxygen (DO)	mg/L[2]	-	-	Dissolved Oxygen (DO)	mg/L	Carbonate	mg/L
Temperature	˚C[3]	-	-	Temperature	˚C	Bicarbonate	mg/L
-	-	-	-	-	-	Chloride	mg/L
-	-	-	-	-	-	Sulfate	mg/L
-	-	-	-	-	-	Boron	mg/L
-	-	-	-	-	-	Calcium	mg/L
-	-	-	-	-	-	Sodium	mg/L
-	-	-	-	-	-	Magnesium	mg/L
-	-	-	-	-	-	Potassium	mg/L

Notes:

[1] µmhos/cm = micromhos per centimeter

[2] mg/L = milligrams per liter

[3] ˚C = Degrees Celcius

Stream Gages in the Tule Subbasin

River	Stream Gage	Location (Latitude, Longitude)	Period of Record	Gage Type	Comments
Tule River	Success Dam	Lat 36º 03' 23", Long 118º 55' 22"	October 1953 - Present	Water stage recorder	The discharge at this station is controlled by the release from Success Reservoir. The recorder is operated and maintained by the U.S. Army Corps of Engineers.
	Rockford Station	Lat. 36º 04' 40", Long 119º 06' 22"	February 1957 - Present	Concrete weir equipped with a water stage recorder	The recorder is operated and maintained by the Tule River Association.
	Turnbull Weir	Lat 36º 03' 4", Long 119º 30'	1942 - Present	Rated section of the natural channel equipped with a staff gage	Records currently maintained by the TRA with the assistance of Downstream Kaweah and Tule Rivers Association. Manual measurements of stream velocity and stage are conducted by LTRID.
	Friant-Kern Canal Discharge into the Tule River	Lat. 36º 04' 25", Long 119º 05' 15"	June 1950 - Present	Modified 20 ft parshall flume	Records are furnished by the U.S. Bureau of Reclamation.
	Friant-Kern Canal Discharge into the Porter Slough	Lat. 36º 05' 00", Long. 119º 04' 50"	June 1950 - Present	15 ft rectangular weir	Records are furnished by the U.S. Bureau of Reclamation.
Deer Creek	Deer Creek at Fountain Springs	Lat 35º 56' 30", Long 118º 49' 19"	1968 - Present	Water stage recorder	Gage operated, managed and data collected by the USGS.
	Deer Creek at Trenton Weir*	Lat 36° 56' 46", Long 119° 10' 52"	N/A	Concrete weir equipped with a water stage recorder	Records currently maintained by the U.S. Army Corps of Engineers.
	Deer Creek at Homeland Canal	N/A[1]	N/A	N/A	
White River	Road 208*	Lat 35° 51' 32", Long 119° 6' 28"	N/A	N/A	Streamflow in this river is currently monitored manually at Road 208 by the Tule Basin Water Quality Coalition and Delano-Earlimart Irrigation District.

Notes:

[1] N/A = Not Available

* Latitude and Longitude are estimated from ArcGIS for Deer Creek at Trenton Weir and at Road 208 along the White River. All other latitude and longitude measurements are reported by the United States Geological Survey.

Surface Water Quality Constituents for Analysis

Constituent	Units	Trigger Limit	Tule River Poplar Avenue (2004 - 2005)	Deer Creek Road 248 (2010 - 2013)	White River Road 208 (2011)
Electrical Conductivity	µS/cm[1]	*1,000.00*	67.7 - 157.8	148 - 284	272 - 304
pH	n/a[6]	*6.5 - 8.3*	7.02 - 8.94	7.7 - 8.9	8.18 - 9.03
Total Dissolved Oxygen	mg/L[2]	*min. 7.0*	6.3 - 9.4	7.0 - 11.1	8.94 - 10.64
E. Coli	MPN[5]/100 mL	*235.00*	n/a	81.3 - 2,419	980.40
Total Organic Carbon	mg/L	*n/a*	0.58 - 6.77	1.65 - 7.2	6.2 - 8.7
Hardness (as $CaCO_3$)	n/a	*n/a*	22.4 - 66.6	51.5 - 95.5	97.8 - 109.0
Total Suspended Solids	mg/L	*n/a*	n/a	4.75 - 574	73.3 - 91.0
Total Dissolved Solids	mg/L	*450.00*	50.0 - 120.0	99 - 398	180 - 211
Turbidity	NTU[4]	*n/a*	4.4 - 35	1.58 - 12.0	55.8 - 86.9
Arsenic	µg/L[3]	*10*	1.47 - 2.37	1.71 - 2.36	n/a
Boron	µg/L	*700.00*	19 - 38	28.6 - 93.7	n/a
Cadmium (Total)	µg/L	*5*	0.011 - 0.050	0.03 - 0.2	n/a
Copper (Total)	µg/L	*1,300.00*	3.54 - 5.93	1.58 - 3.82	n/a
Lead (Total)	µg/L	*15.00*	0.23 - 0.81	0.32 - 5.43	n/a
Molybdenum (Total)	µg/L	*10 / 35*	n/a	0.0044 - 0.0082	n/a
Nickel (Total)	µg/L	*100.00*	0.47 - 2.23	0.51 - 3.84	n/a
Selenium (Total)	µg/L	*50.00*	0.36	1.0 - 2.0	n/a
Zinc (Total)	µg/L	*n/a*	2.54 - 6.19	4.86 - 34.5	n/a
Phosphorus as P	mg/L	*n/a*	21.1 - 64.1	0.01 - 0.014	0.06 - 0.34
Ammonia	mg/L	*1.50*	0.07	0.05 - 0.028	0.069 - 0.20
Nitrate as N	mg/L	*10.00*	0.07 - 0.30	0.03 - 1.00	0.70 - 2.90
Orthophosphate as P	mg/L	*n/a*	0.01 - 0.16	0.03 - 0.022	0.23 - 0.84
Phosphorus as P	mg/L	*n/a*	21.1 - 64.1	0.01 - 0.014	0.06 - 0.34

Notes:

[1] µS/cm = microsiemen per centimeter
[2] mg/L = milligrams per liter
[3] µg/L = micrograms per liter
[4] NTU = Nephelometric Turbidity Unit
[5] MPN = Most Probable Number
[6] n/a = Not Available

Appendices

Appendix A

Driller's Logs and Hydrographs for Existing Upper Aquifer Wells

21/24-35A1

DUPLICATE
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

21/24-35A1 (G.S.)

WATER WELL DRILLERS REPORT

Dec. 21, 1950

(Sections 7076, 7077, 7078, Water Code)

SHEET 1 524 Tulare

Do Not Fill In
State Well No. 21/24E-35A1
Other Well No.
Region

(1) **Driller:**
Name Knapp & Graham
Address 463 W. Inyo, Calif.
License No. 1956 Classification C-57

Owner:
Name Ray Donaldson
Address P.O. Box 306, Tipton, Calif.

(2) **Proposed use or uses** *(check)*:
Domestic ☐ Municipal ☐
Irrigation ☑ Industrial ☐
Domestic and Irrigation ☐ Test well ☐
Other

(3) **Equipment used** *(check)*:
Rotary ☐
Cable ☑
Dug well ☐
Other

(4) **Type of work** *(check)*:
New well ☑ Reconditioning of well ☐
Deepening existing well ☐

CONFIDENTIAL

(5) **Well log:**
Total depth of well 315 ft.

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

Depth From Ground Surface			
0	ft. to	4	ft. Soil
4	" "	23	" Yellow Clay
23	" "	26	" Sand Med.
26	" "	43	" Sandy clay
43	" "	104	" Rock Sand
104	" "	106	" Med. Sand
106	" "	134	" Sandy Clay
134	" "	139	" Rock Sand
139	" "	154	" Sandy Clay
154	" "	168	" Coarse Sand
168	" "	204	" Sandy Clay
204	" "	213	" Blue Clay
213	" "	246	" Blue Sandy Clay
246	" "	268	" Blue Sand Med.
268	" "	279	" Sticky Blue Clay
279	" "	302	" Coarse Blue Sand
302	" "	313	" Sticky Blue Clay
313	" "	?	" Black Clay
	" "		"
	" "		"
	" "		"

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
928	12	✓	10 ga.	315
			(.134)	
		1-062-08		

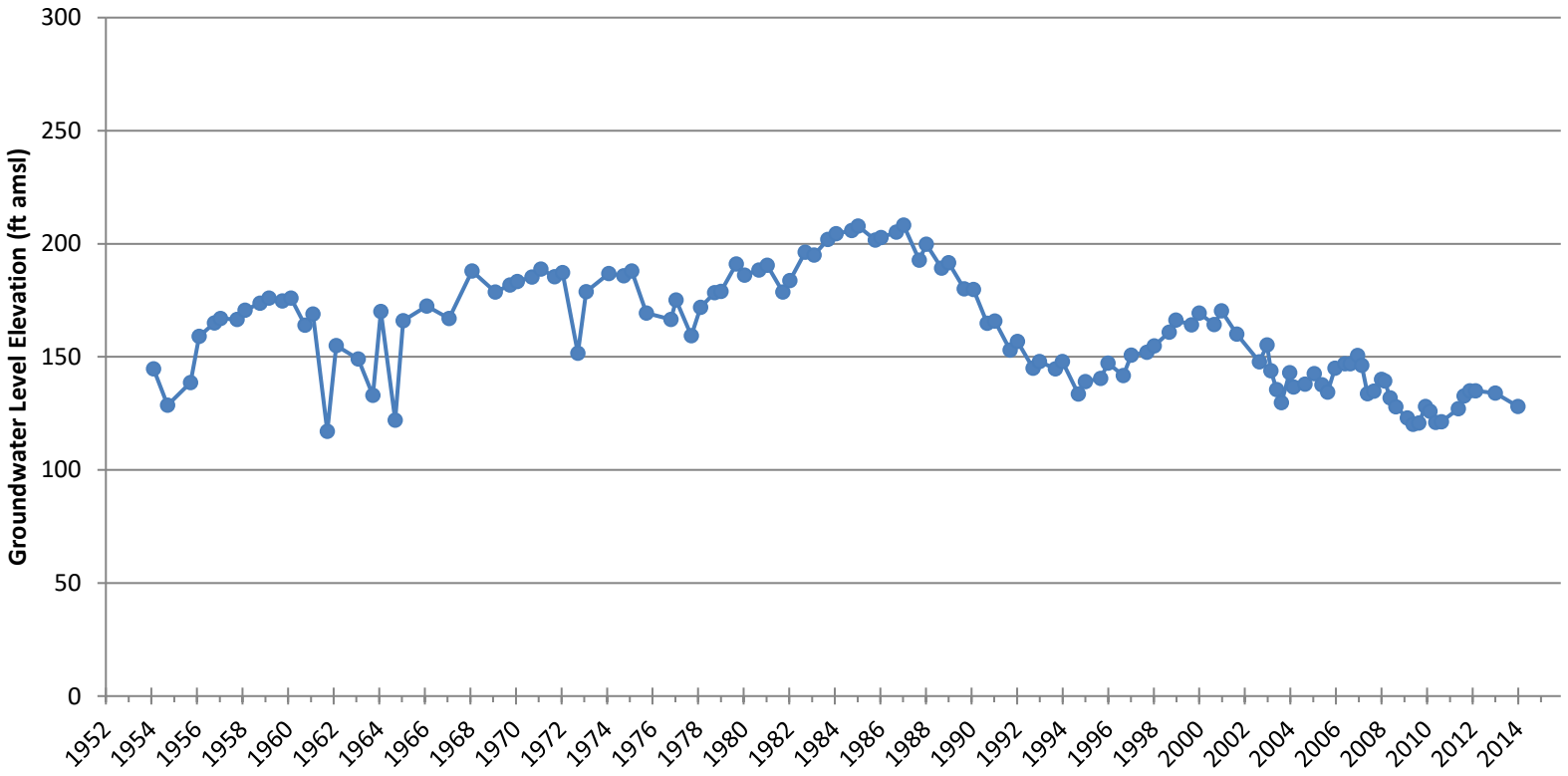
Type and size of shoe or well ring 12"x8"x3/8" steel Welded joints—☑ Yes ☐ No

D.W.R. FORM NO. 246

23571 3-50 40M QUIN SPO

Groundwater Hydrographs - Shallow

21S/24E-35A01



21/23-32K1 TOP 21/23-32K1

Well Log #2

J.W. Guiberson & Co. Corcoran, Calif

W.H. Lambert - Driller
Phone 346R2 - Corcoran, Cal.

Top	109'	Plain.
	5'	Pers & screen.
	6'	Plain.
	14'	Pers & screen.
	21'	Plain.
	6'	Pers & screen.
	11'	Plain.
	14'	Pers & screen.
	3'	Plain.
	6'	Pers. & screen.
	22'	Plain.
	10'	Pers. & screen.
	25'	Plain.
	10'	Pers & screen.
	5'	Plain.
	11'	Pers & screen.
	3'	Plain.
	12'	Pers & screen.
	8'	Plain.
	6'	Pers & screen.
	2'	Plain.
	8'	Pers & screen.
	11'	Plain.
	14'	Pers & screen.
	2'	Plain.
	8'	Pers & screen.
	28'	Plain
	10'	Pers & screen
	5'	Plain.
	7'	Pers & screen.
Bottom	4'	Plain

Plain Pipe - 265'
Pers. & screen = 141'
Total Ft. = 406'

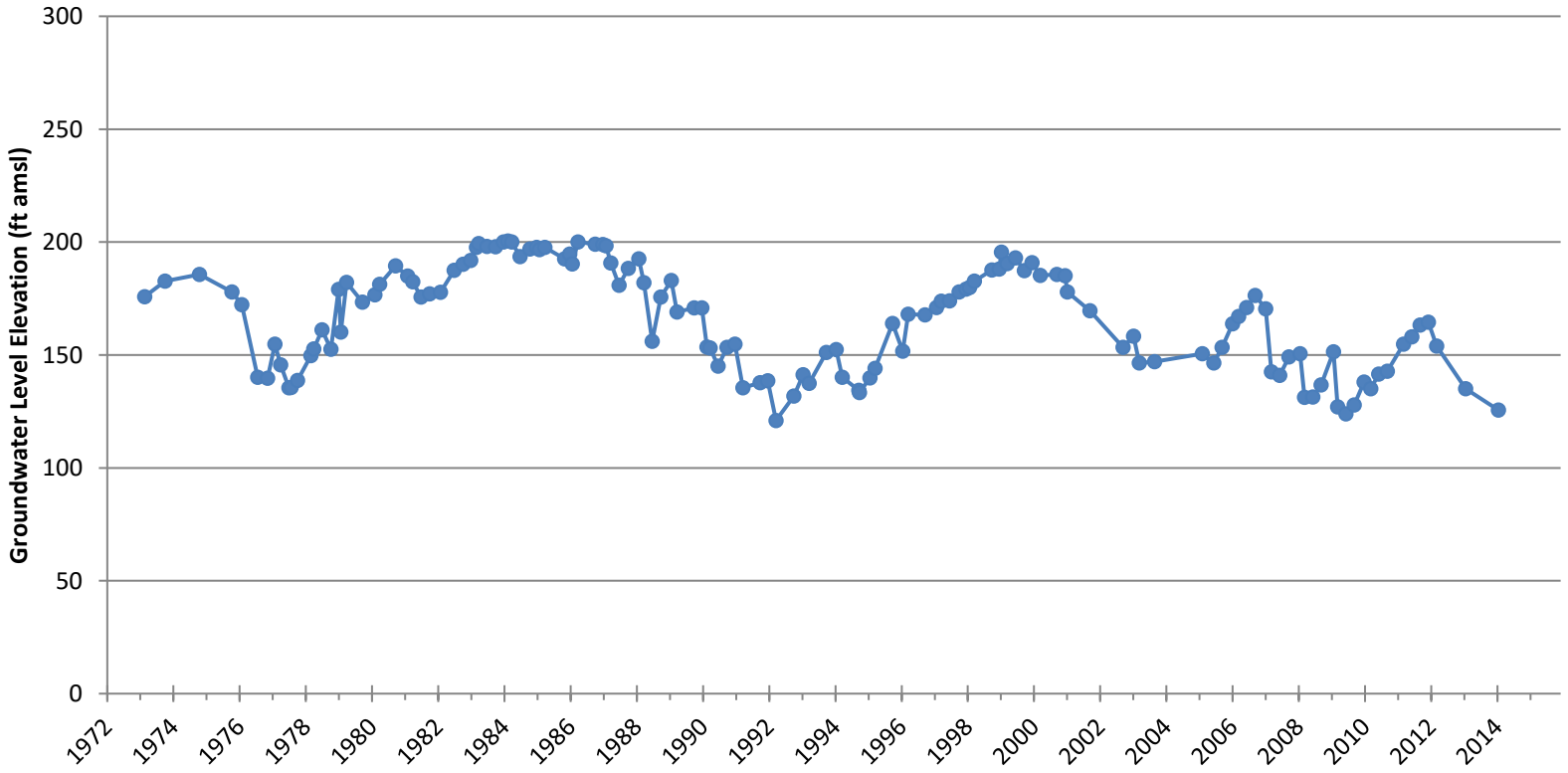
Kelim 32-21-23
Southeast well
March 4-1937

DESCRIPTION:

JOB NO.	CONSOLIDATED PIPE CO. BAKERSFIELD ENGINEERING DEPARTMENT	DATE
NUMBER REQUIRED		SALESMAN

Groundwater Hydrographs - Shallow

21S/23E-32K01



DUPLICATE 21/25-3R1 STATE OF CALIFORNIA
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DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA PEG

DIVISION OF WATER RESOURCES

21/25-3R1 (G.S.)

SHEET 1 (50) Tulare

Do Not Fill In
State Well No. ~~21S/24E-3R1~~
Other Well No.
Region 5

LSD 300

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

Feb. 3, 1950

(1) **Driller:**
Name Knapp & Graham 104
Address 466 W. Inyo, Tulare Calif.
License No. 69956 Classification C-57

Owner:
Name C. O. Bergman
Address Tulare Calif.

(2) **Proposed use or uses** *(check)*:
Domestic ☐ Irrigation ☑ Domestic and Irrigation ☐ Other
Municipal ☐ Industrial ☐ Test well ☐

(3) **Equipment used** *(check)*:
Rotary ☐ Cable ☑ Dug well ☐ Other

(4) **Type of work** *(check)*:
New well ☑ Reconditioning of well ☐ Deepening existing well ☐

CONFIDENTIAL

(5) **Well log:**
Total depth of well 328 ft.

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

Depth From Ground Surface (ft.)	to (ft.)	Formation
0	6	Soil
6	82	Sandy Clay
82	90	Sand
90	102	Sandy Clay
102	108	Sand
108	115	Fine Sand
115	122	Sandy Clay
122	132	Coarse Sand perf up to 145 ft.
132	168	Fine Sand
168	180	Sandy Clay
180	188	Fine Sand
188	198	Sandy Clay
198	208	Fine Sand
208	231	Sandy Clay
231	238	Sand
238	292	Sandy Clay
292	296	Coarse Sand stayed open
296	324	Sandy Clay
324	328	Fine Sand

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
274	14	D. Casing	12 Ga (.105)	274

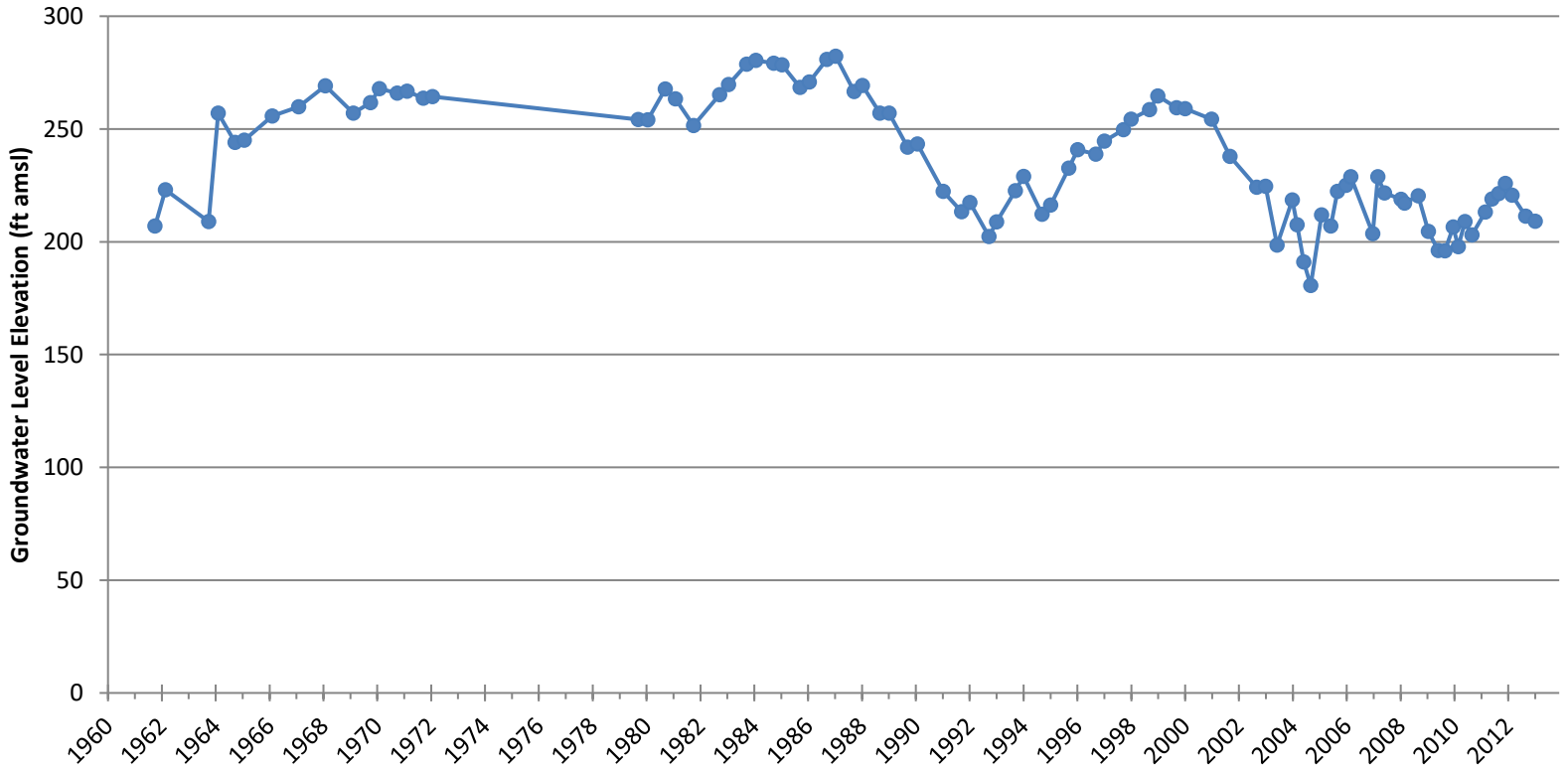
Type and size of shoe or well ring 14" x 8" x 5/8" Shoe Welded joints ☑ Yes ☐ No

D.W.R. FORM NO. 246

400 feet north, 250 feet west of SE corner of section 3 (USGS)

Groundwater Hydrographs - Shallow

21S/25E-03R01



DUPLICATE-
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

21/26-32A1

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

21/26-32 A1 (G.S.)

SHEET 1 OF 2 SHEETS

Do Not Fill In
State Well No.
Other Well No.
Region

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

LSD Elev. 348

(1) **Driller:**
Name O.E.(Ed) Owens
Address 705 E. Harrison St.
Porterville
License No. ____ Classification ____

Owner:
Name Homer Smartt
Address Woodville

(2) **Proposed use or uses** *(check)*:
Domestic ☐ Municipal ☐
Irrigation ☐ Industrial ☐
Domestic and Irrigation ☑ Test well ☐
Other ____

(3) **Equipment used** *(check)*:
Rotary ☐
Cable ☑
Dug well ☐
Other ____

(4) **Type of work** *(check)*:
New well ☐ Reconditioning of well ☐
Deepening existing well ☑

(5) **Well log:**
Total depth of well 267 ft.

Depth From Ground Surface

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

215 ft.	to 232 ft.	Sandy Clay – Brown
232 "	" 230 "	Sand & Gravel
230 "	" 240 "	Sandy Clay – Brown
240 "	" 253 "	Sand – coarse
253 "	" 258 "	Sandy – Clay – Brown
258 "	" 262 "	Sand – Medium
262 "	" 267 "	Sandy clay – Brown

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
120'	10"	Single welded	12 Ga.	267
			.105	

Type and size of shoe or well ring ____ Welded joints ☑ Yes ☐ No

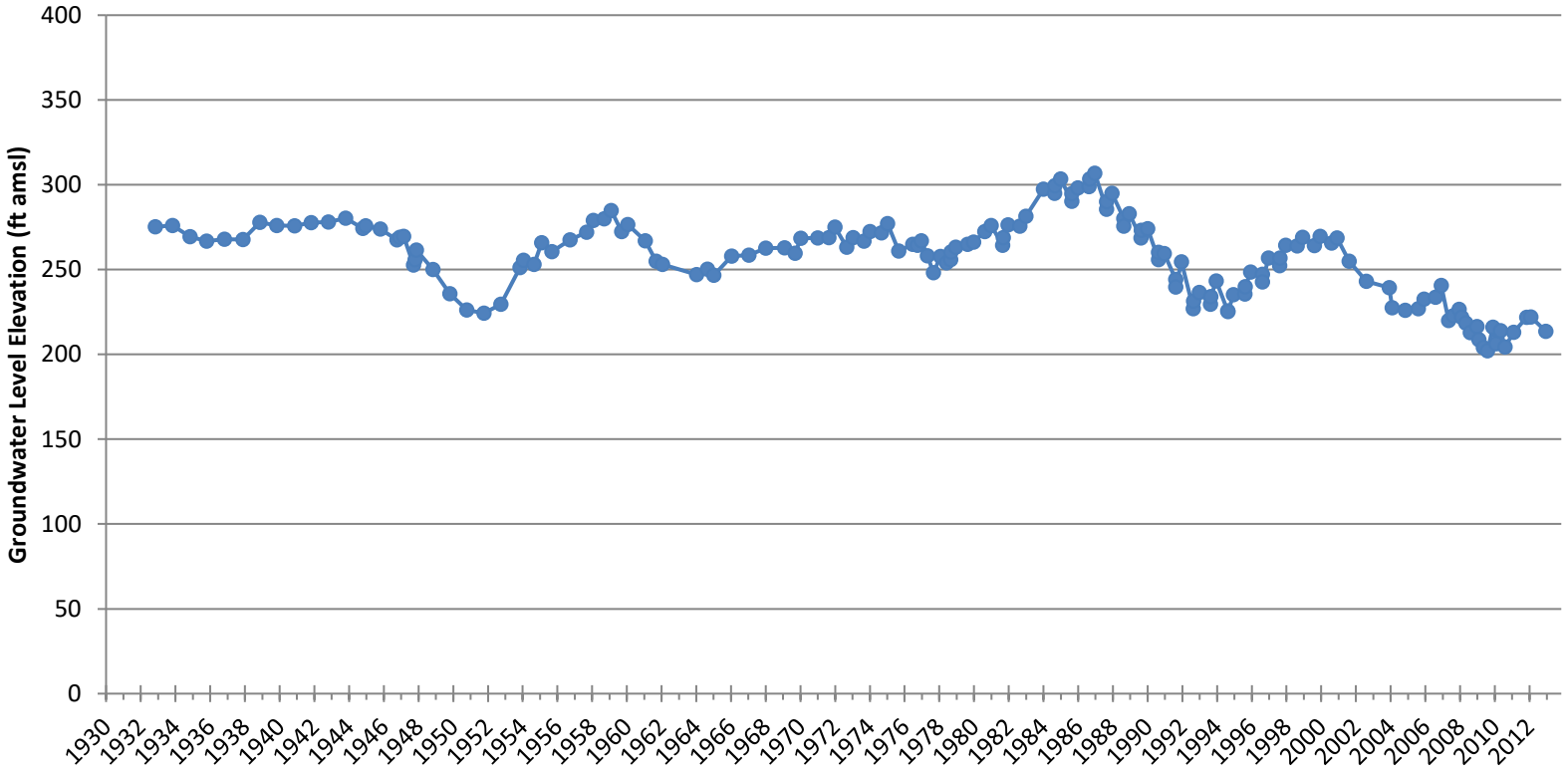
5100 feet north, 25 feet west of SE corner of section 32, (USGS)

D.W.R. FORM NO. 246

23971 3-50 40M QUIN SPO

Groundwater Hydrographs - Shallow

21S/26E-32A01



22/24-9A1

U.S.DEPARTMENT OF THE INTERIOR - [illegible]EAU OF RECLAMATION - REGION II
WELL LO[illegible]

22/24-9A1

County [illegible] Owner [illegible] U.S.B.R. No. [illegible]
Dist. Use [illegible] Local No.
Quad. [illegible] Driller [illegible] Date [illegible]
Location [illegible]

Surf.Elev. [illegible] Groundwater Elev. Date
Depth [illegible] Groundwater Elev. Date
Yield Aquifers
Drawdown Artesian Head Date
Casing [illegible] [illegible] Sand-Gravel

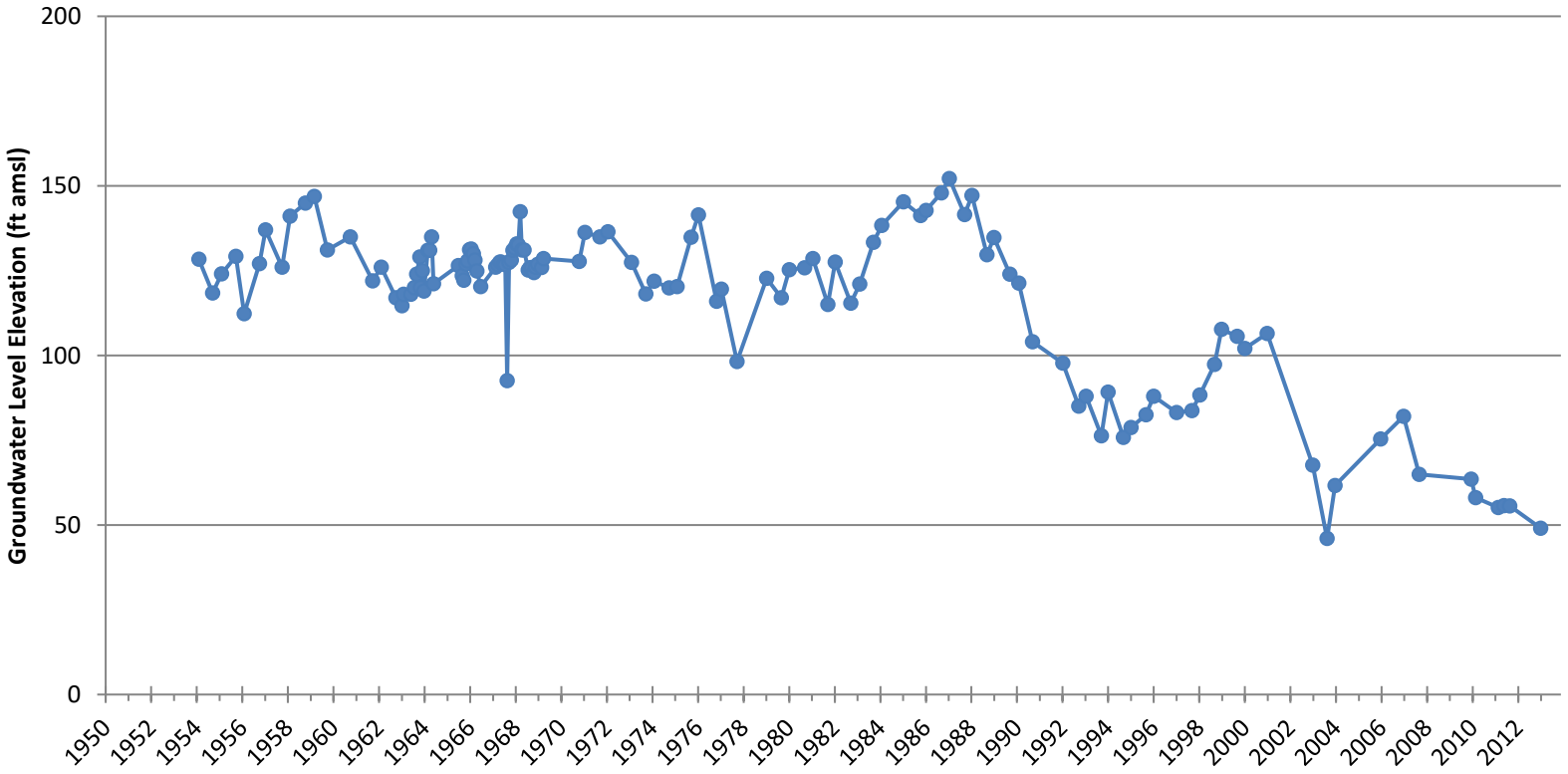
Source of data [illegible] Type drill [illegible] Diam. hole [illegible]

Depth	Elev.	Thick	Description
0	[illegible]	8	[illegible]
8	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible] clay
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible] clay
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

	50	100	200
G			
S	3	4	7P
F			
[illegible]	26	17	28
[illegible]	18	25	22
	48	50	100

Groundwater Hydrographs - Shallow

22S/24E-09A01



LSD Elev 373 22/26 - 10J1

U.S. DEPARTMENT OF THE INTERIOR - BUREAU OF RECLAMATION - REGION II
WELL LOG

22/26-10J1

County Tulare | Owner Charley Soak | U.S.B.R. No. 22-26-10A
Dist. | Use Irrigation | Local No.
Quad. Woodville | Driller James Woods | Date March 15, 1947
Location 22-26-10 (0.98-0.11)

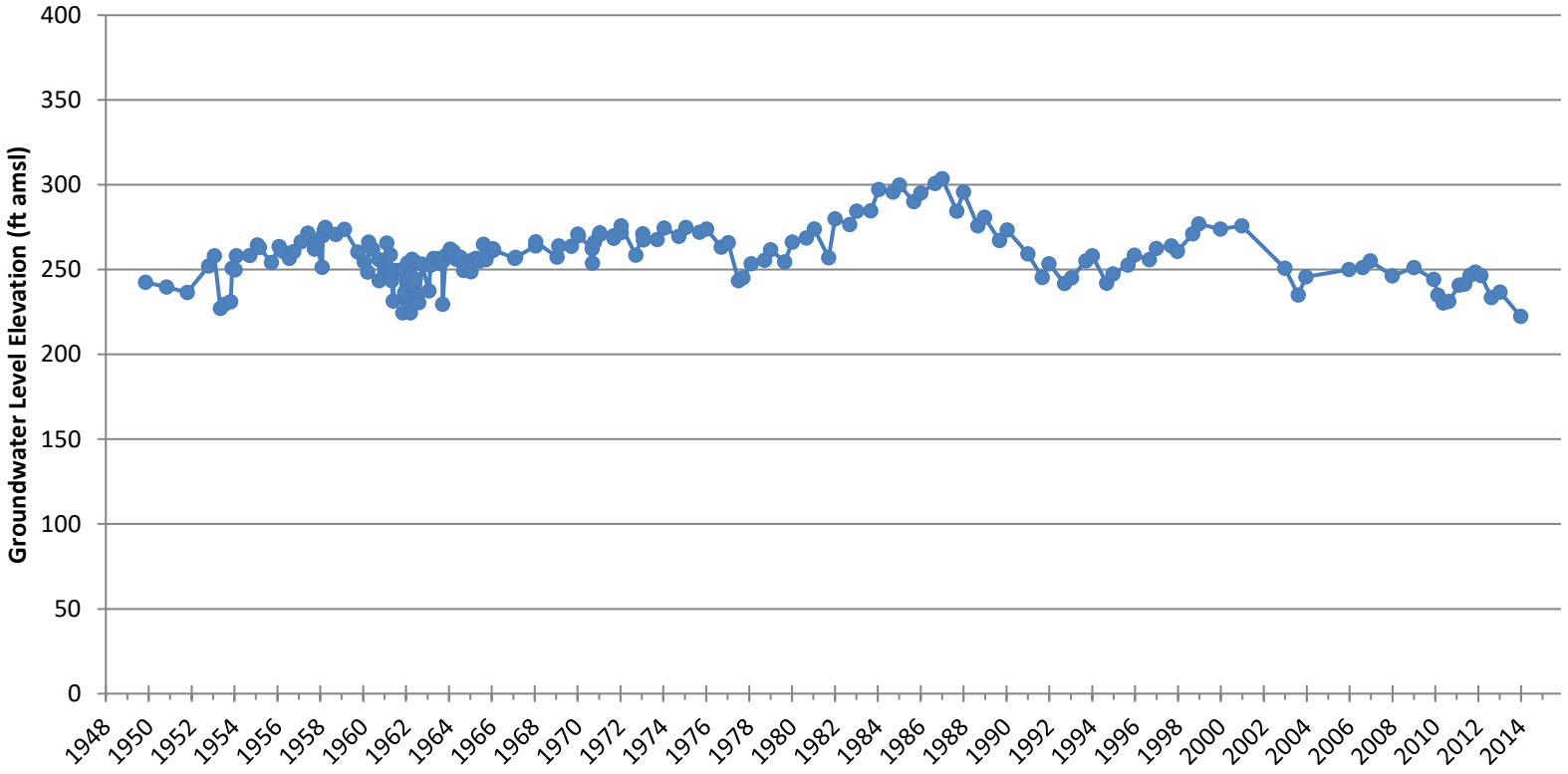
Surf.Elev. 373 | Groundwater Elev. 278 | Date March 15, 1947
Depth 351 | Groundwater Elev. | Date
Yield | Aquifers
Drawdown | Artesian head | Date
Casing 351'x14" perf. | % Sand-Gravel

Source of data Anderson | Type drill Cable-Tools | Diam. hole 14"

Depth	Elev.	Thick	Description
0	373	8	(Top soil - Brown, soft, fine sandy loam, poor permeability)
8	365	62	(Sandy silt, light brown, hard sandy silt, relatively impermeable)
70	303	4	(Sand - brown, subrounded, fairly well sorted, loose, 0.50mm to 1.00mm in diameter, sand, predominently quartzose)
74	299	56	(Sandy silt, brown, hard sandy silt, poor permeability)
130	243	36	(Sand and cobbles, gray to brown, subrounded, 0.50mm to 1.00mm in diameter, loose, quartz sand and subroudned cobbles up to 2½" in diameter)
166	207	19	(Sandy clay, brown, very hard, sandy clay, relatively impermeable)
185	188	11	(Cobbles, subrounded, lose, cobbles up to 2" in diameter)
196	177	24	(Sandy clay, brown, hard, sandy clay, relatively impermeable)
220	153	108	Clay
328	45	7	Sand and gravel
335	38	10	Clay
345	28	6	Hard clay
351	22		Bottom

Groundwater Hydrographs - Shallow

22S/26E-10J01



In 207

R-6

R-6

R#6

ROY PULLIAM

WATER WELL DRILLING
ROUTE I BOX 744 SU 4 I593

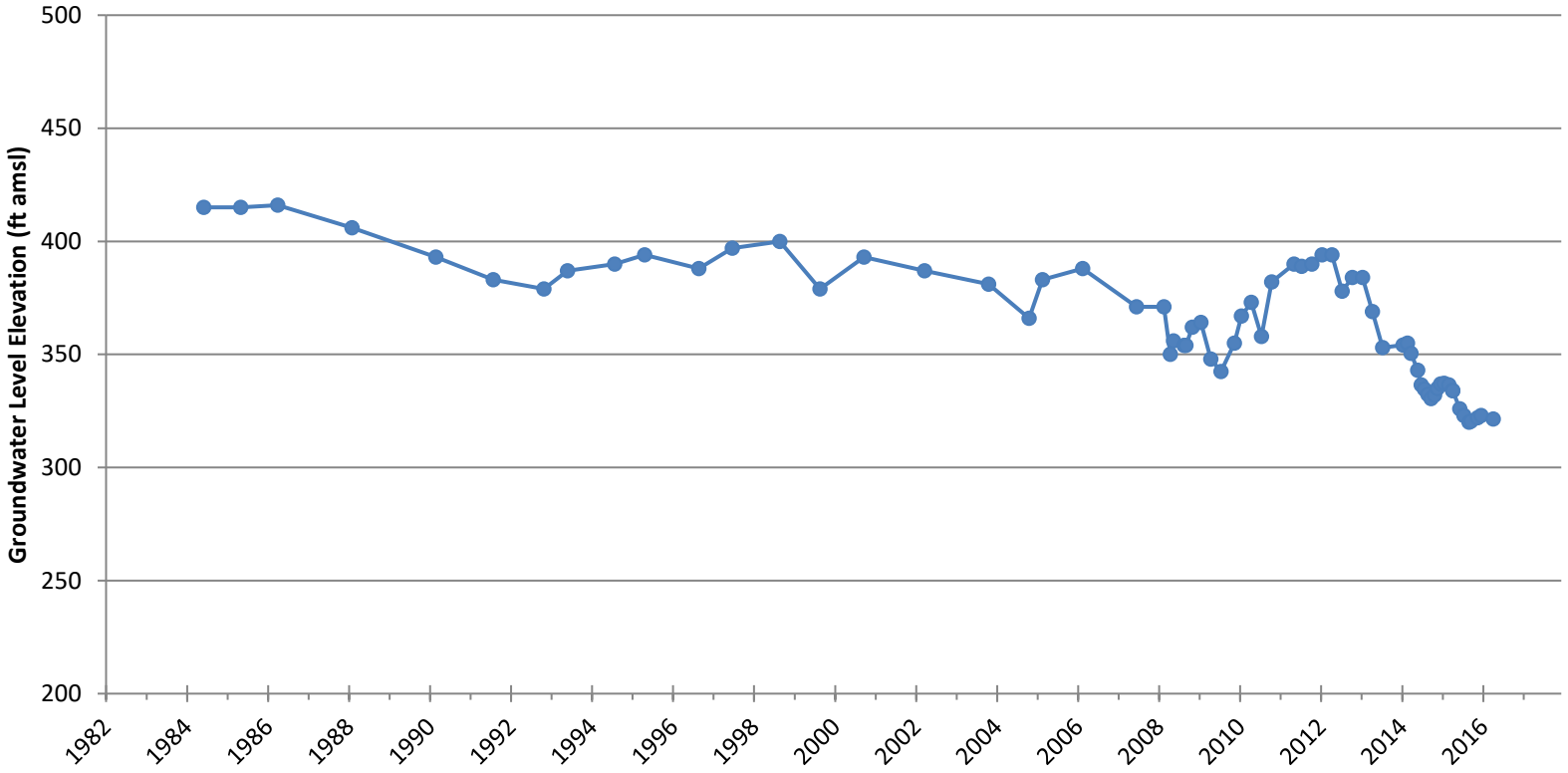
Log of IO in. Well

0 to 4I ft.	Sandy Clay
4I to 80 ft.	Water, Sand and Gravel
80 toI23 ft.	Sandy Clay
I23 toI35 ft.	Water, Sand and Gravel
I35 toI50 ft.	Clay

Cast to I44 ft.
6 ft. open hole
Perforated from 4I ft. to I44 ft.
Water Level 32 ft.

Groundwater Hydrographs - Shallow

R-6



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Retain this copy

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

R#11

R-11

Do Not Fill In
No 67312
Other Well No. R-11

(1) OWNER:

Name ~~R~~ ROWLAND WATER COMPANY
Address 1543 West Olive Ave
Porterville, California

(2) LOCATION OF WELL:

County Tulare Owner's number, if any
Township, Range, and Section 5 miles west of Porterville
Distance from cities, roads, railroads, etc. on Olive, ¼ North on Cedar,
on last st in back of Rowland Tract.

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐
If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☐
Cable ☒
Other ☐

(6) CASING INSTALLED:

STEEL: X OTHER:
SINGLE ☒ DOUBLE ☐

From ft.	To ft.	Diam.	Gage or Wall
0	84	14	10
0	212	10	10

If gravel packed

Diameter of Bore	From ft.	To ft.

Type shoe or well ring: 3/4x4x14 Size of gravel: 3/4x4x10
Describe joint Plain End

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen None

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.

(8) CONSTRUCTION:

Was surface sanitary seal provided? Yes ☒ No ☐ To what depth 84 ft.
Were any strata sealed against pollution? Yes ☒ No ☐ If yes, note depth of strata
1 31 ft. to 36 ft. Fine Sand
2 56 ft. to 79 ft. Cobbers & Sand
Method of sealing Grout

(9) WATER LEVELS:

Depth at which water was first found, if known 32 ft.
Standing level before perforating, if known 32 ft.
Standing level after perforating and developing 32 ft.

(10) WELL TESTS:

Was pump test made? Yes ☒ No ☐ If yes, by whom? By Owner
gal./min. with ft. drawdown after hrs.
Quality of water Was a chemical analysis made? Yes ☐ No ☒
Was electric log made of well? Yes ☐ No ☒ If yes, attach copy

(11) WELL LOG:

Total depth 216 ft. Depth of completed well 216 ft.
Formation: Describe by color, character, size of material, and structure

ft. to	ft.	
0	31	Sandy Loam
31	36	Fine Sand
36	43	Very soft Silt
43	48	Very Fine Sand
48	56	Very Soft Silt
56	65	Cobbers & Sand
65	70	Cobbers
70	79	Cobbers & Sand
79	101	Brown Clay
101	114	Fine Sand
114	120	Med Sand & Gravel
120	131	Coarse Sand & Cobbers
131	178	Brown Clay
178	180	Tight Dark Sand
180	216	Tough Brown Clay
216	220	Coarse Sand & Sm. Rocks

Well Log
Lot 40 Fr. 213

R#11

Work started 1/24 19 72 Completed 2/7 19 72

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ROGER L. NATION
(Person, firm, or corporation) (Typed or printed)
Address 26521 South Mooney
Visalia, California
[SIGNED] Roger L. Nation
(Well Driller)
License No. 259884 Dated 2/9 19 72

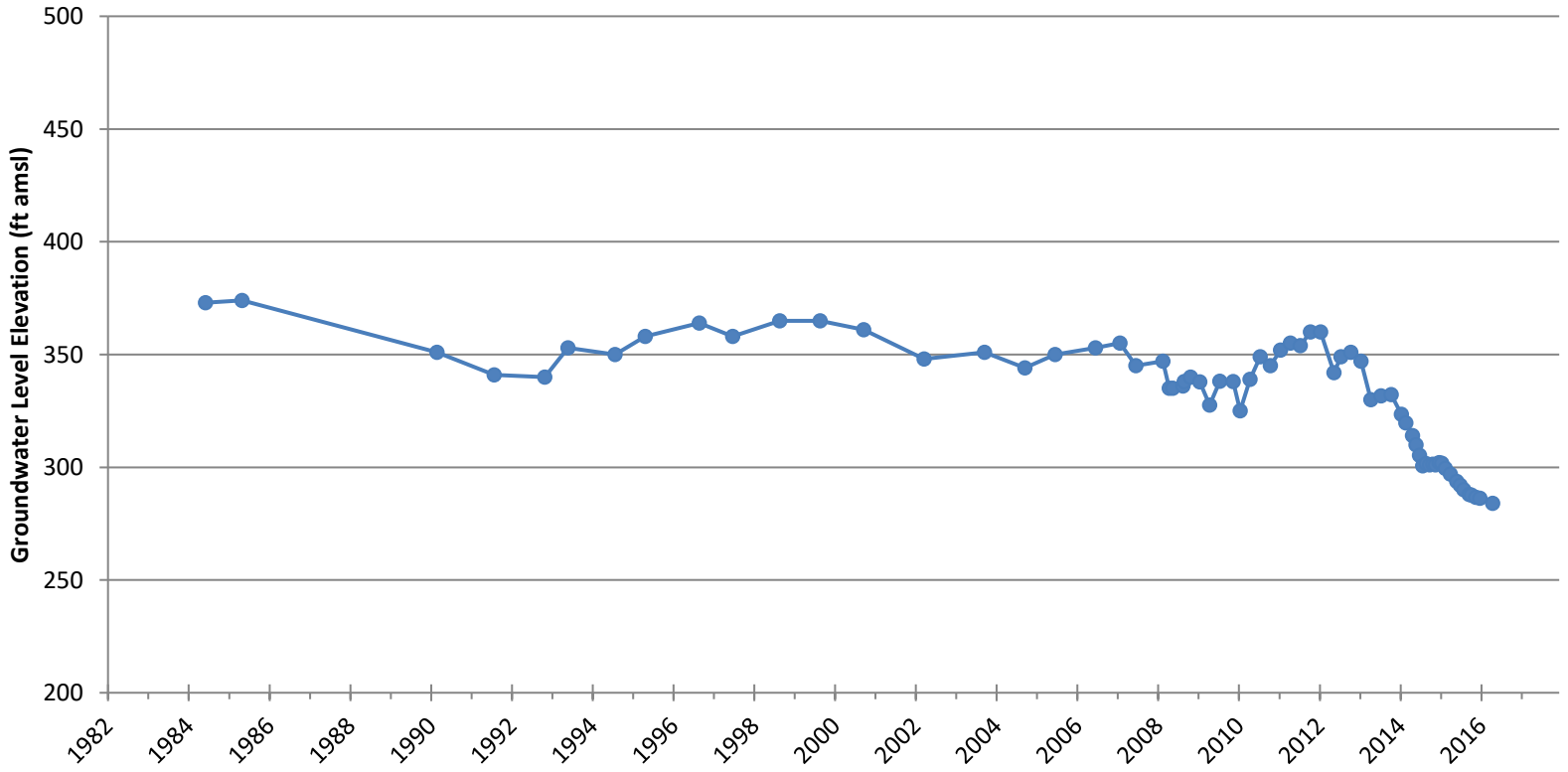
SKETCH LOCATION OF WELL ON REVERSE SIDE

R 188 (REV. 9-68)

28178-950 9-68 50M TRIP △D OBP

Groundwater Hydrographs - Shallow

R-11



DUPLICATE
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

23126-9C1 P.E.G.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

23/26-9C1 (GS)

SHEET 1 of 2 Sheets

Tulare

Do Not Fill In
State Well No.
Other Well No.
Region

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

LSD Elev. 440

(1) **Driller:**
Name L. R. Henderson
Address 675 Vandalia Ave
Porterville Calif
License No. 125434 Classification C-57

Owner:
Name Elmer Swisher
Address R.F.D. Box 216
Porterville Calif.

(2) **Proposed use or uses** *(check)*:
Domestic ☐ Municipal ☐
Irrigation ☒ Industrial ☐
Domestic and Irrigation ☐ Test well ☐
Other

(3) **Equipment used** *(check)*:
Rotary ☐
Cable ☒
Dug well ☐
Other

(4) **Type of work** *(check)*:
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(5) **Well log:**
Total depth of well 440 ft.

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

Depth From Ground Surface		
0 ft.	to 45 ft.	sandy + clays
45 "	" 56 "	gravel
56 "	" 115 "	clay
115 "	" 125 "	gravel
125 "	" 145 "	clay
145 "	" 170 "	gravel
170 "	" 205 "	clay
205 "	" 225 "	gravel
225 "	" 260 "	clay
260 "	" 275 "	gravel
275 "	" 310 "	clay
310 "	" 330 "	gravel
330 "	" 360 "	clay
360 "	" 380 "	gravel
380 "	" 440 "	clay

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
400	14	double	12 gage	
			105	

Type and size of shoe or well ring 14" Welded joints—☒ Yes ☐ No

5150 feet north, 7250 feet west of SE Corner of section 9, (USGS)

FINAL COPY

D.W.R. FORM NO. 246

23871 3-50 40M QUIN &CO

DUPLICATE
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

23/26-9C1

SHEET 2

Tulare

Do Not Fill In
State Well No.
Other Well No.
Region

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

CONFIDENTIAL

(7) Perforations:

Type of perforator used: mills Perforator

Perforated 200 ft. to 390 ft. Hole size .... No. of holes ....

(8) Water levels:

Depth at which water first encountered 190 ft.
Depth to water before perforating .... ft.
Depth to water after perforating .... ft.
Note any change in water level while drilling

(9) Well pumping test:

Date of test .... By whom ....
Depth to water when test started .... ft.
G.P.M. at beginning of test ....
Drawdown from standing level .... ft.
G.P.M. at completion of test ....
Drawdown at completion of test .... ft.
Length of time tested ....
Temperature of water ....
Was gas present in water? ☐ Yes ☐ No

(10) General:

Was well gravel packed? No Size of rock .... Thickness of pack ....
Was a surface sanitary seal provided? ....
Were any strata sealed against pollution? ☐ Yes ☒ No If yes, attach detailed description.
Strata sealed ....
Was analysis made of water? ☐ Yes ☒ No If yes, attach copy.
Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
If well abandoned, was it plugged and sealed? ....
Method of plugging and sealing ....

(11) Location:

North

	X O		

1 MILE

Section No. 9
Township 23 - South
Range 26 - East
Base & Meridian M. D.
Show location of well in Section, thus (X)
Distances to section lines from well, N or S 100 ft. and E or W 2000 ft.
Show location of nearest known well, thus (O)
Distance to nearest known well 100 ft.

(12) Time of work:

Work started date Feb 17 Completed date Mar 22 52
Date of this report March 24 52

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] L. R. Henderson
Well Driller
By mrs L. R. Henderson

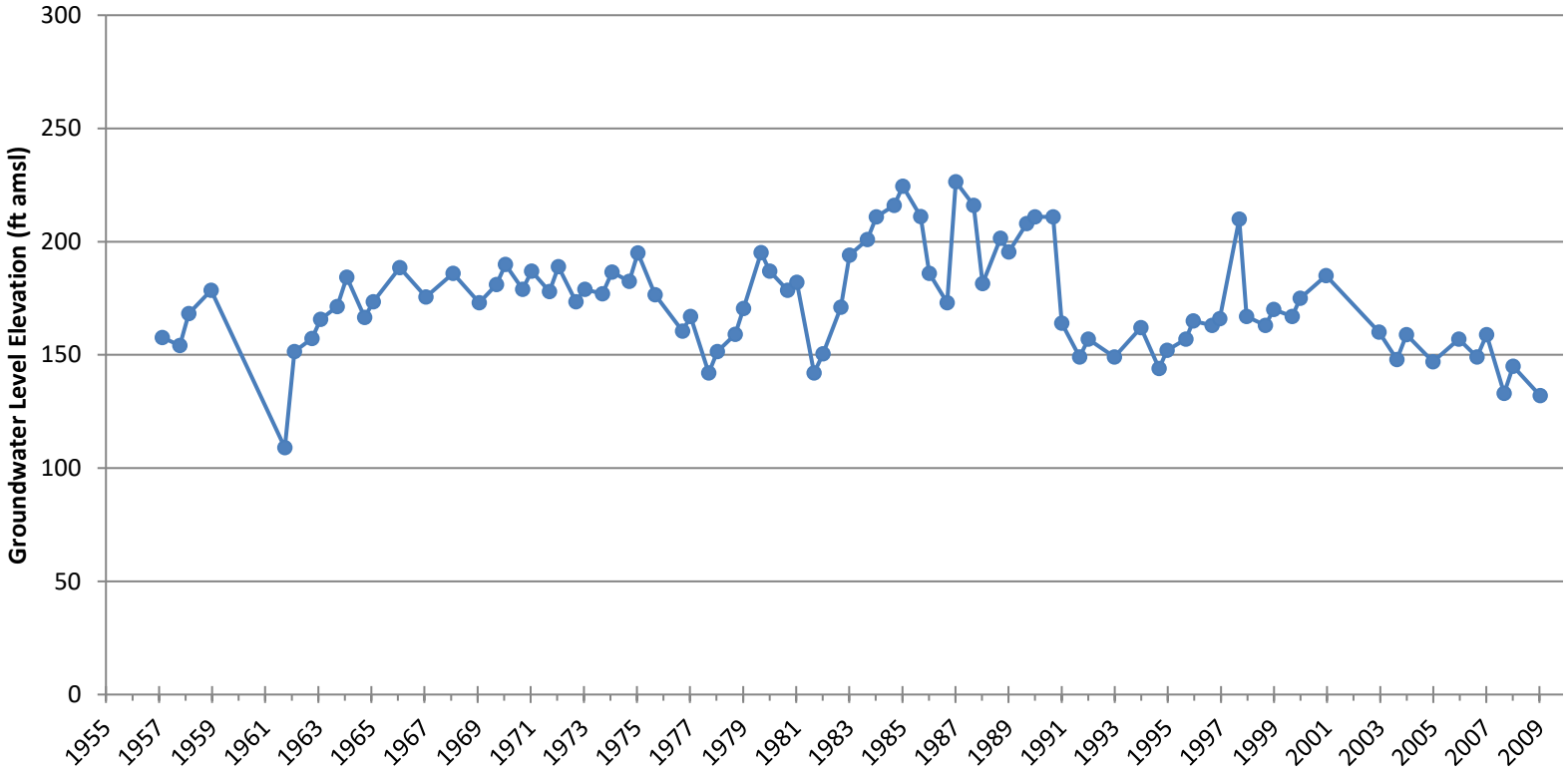
License No. 125434 Classification C 57

Dated March 24, 1952

D.W.R. FORM NO. 246

Groundwater Hydrographs - Shallow

23S/26E-09C01



23/26-12J1

PEG

23/26-12J1

Local Form No. 483

LSD Elev. 119

U.S.DEPARTMENT OF THE INTERIOR - BUREAU OF RECLAMATION - REGION II

WELL LOG

County Tulare — Owner [illegible] — U.S.B.R. No. 23-26-12
Dist. — Use Dom. — Local No.
Quad. Ducor — Driller [illegible] — Date March 19[illegible]
Location 23-26-12 ([illegible])

Surf.Elev. 120 — Groundwater Elev. — Date
Depth 280 — Groundwater Elev. — Date
Yield — Aquifers
Drawdown — Artesian head — Date
Casing 238-278' perf. — % Sand-Gravel

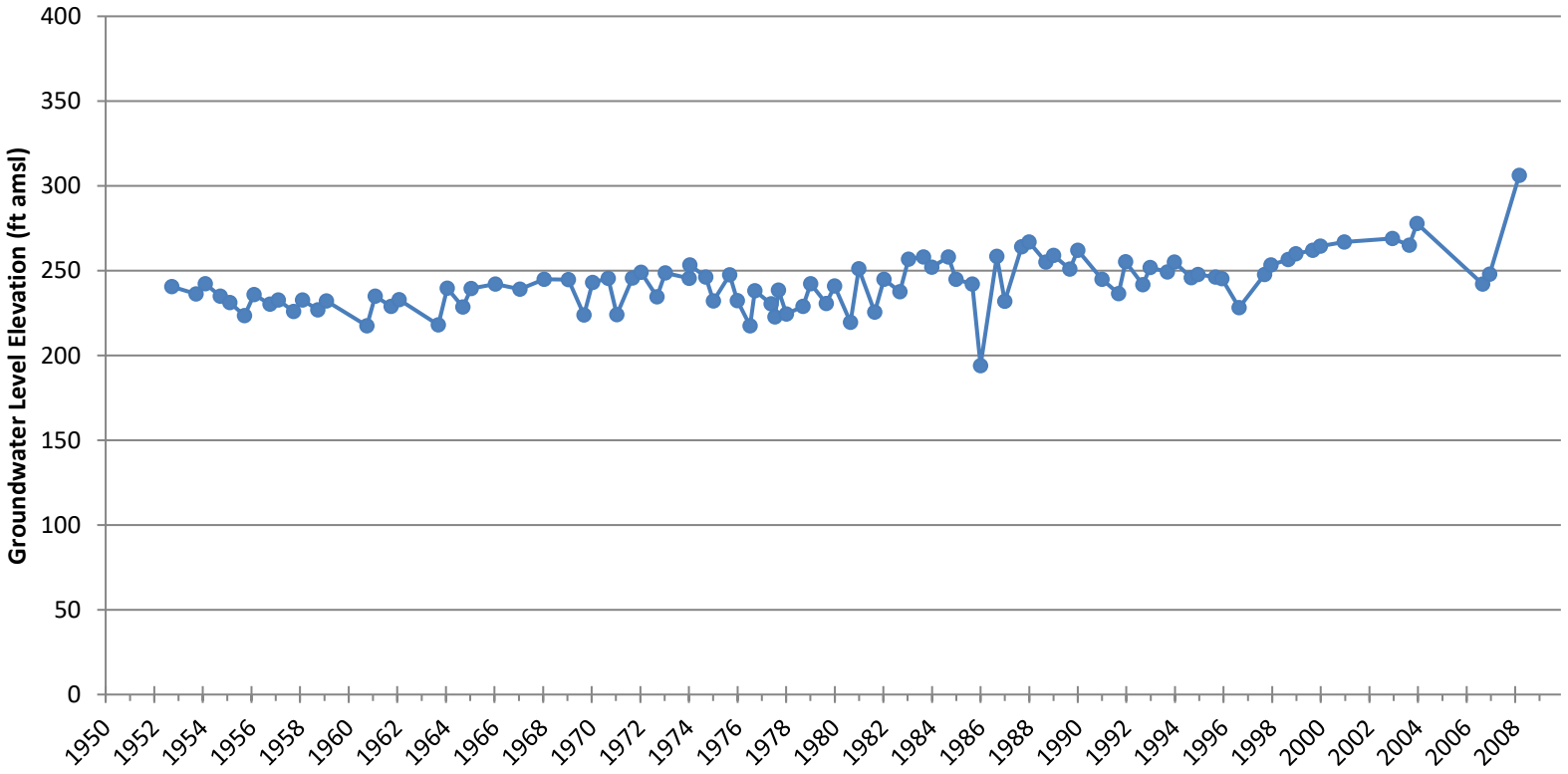
Source of data Driller — Type drill Cable-tool — Diam. hole 10"

Depth	Elev.	Thick	Description		
0	120	130	yellow shale	10/50/30	C
130	[illegible]	5	joint clay	5	C
135	[illegible]	30	sandy shale	30	G
165	[illegible]	2	sand, some water	2	F
167	[illegible]	28	sandy shale	28	G
195	[illegible]	10	joint clay	5/5	C
205	[illegible]	58	sticky clay		
263	[illegible]	4	sand, water showing		
267	[illegible]	13	sandy shale, gray		
280	[illegible]		bottom of well		

	50	100	200
G			
[illegible]			
F			2
[illegible]			58
C	40	50	40
	40	50	100

Groundwater Hydrographs - Shallow

23S/26E-12J01



ASD Elev. [illegible] 22/24-23 J1

U.S. DEPARTMENT OF THE INTERIOR - BUREAU OF RECLAMATION - REGION II

WELL LOG

22/24-23J1

County Tulare
Dist.
Quad. Visalia
Location [illegible]

Owner Ben Coleman
Use
Driller
Date

U.S.B.R. No. 22-24-23J1
Local No.
Date 7-[illegible]-46

Surf.Elev. [illegible]
Depth 400
Yield
Drawdown
Casing

Groundwater Elev. [illegible]
Groundwater Elev.
Aquifers [illegible]
Artesian head

Date 7/[illegible]/46
Date
Date

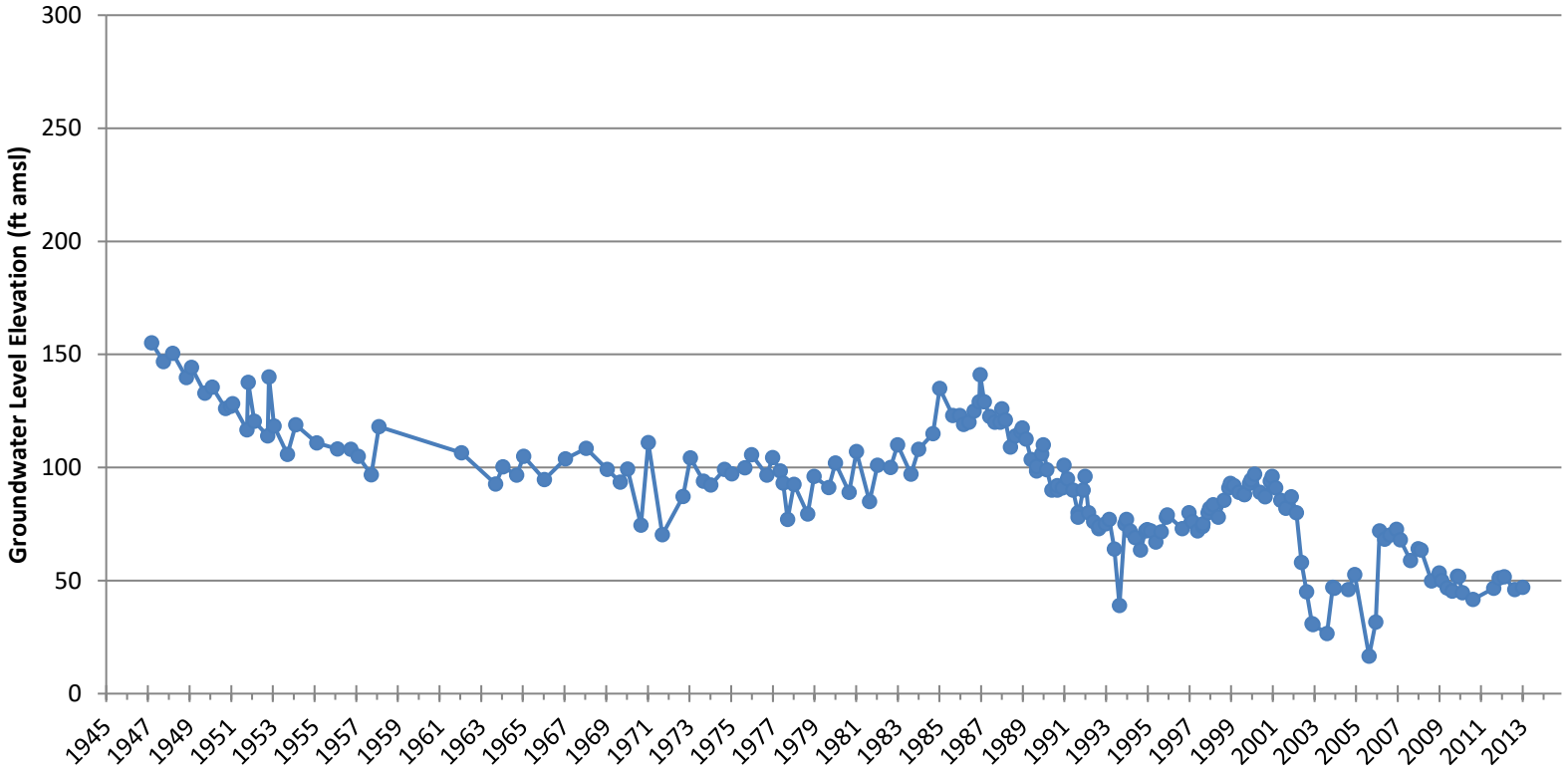
Sand-Gravel

Source of data Farmer Type drill [illegible] Diam. hole 8"

Depth	Elev.	Thick	Description
0	357	F 2	[illegible]
2	355	4" C 61	[illegible]
63	294	2 C 2	[illegible]
65	292	F 13	[illegible]
			[illegible]
83	274	2 C 7	[illegible]
			[illegible]
90	267	F 6	[illegible]
			[illegible]
95	261	1" C 23	[illegible]
			[illegible]
117	240	C 9	[illegible]
126	231	C 9	[illegible]
			[illegible]
135	222	F 5	[illegible]
			[illegible]
140	217	C 26	[illegible]
166	191	C 6	[illegible]
			[illegible]
167	[illegible]	C [illegible]	[illegible]
171	[illegible]	[illegible]	[illegible]
211	[illegible]	[illegible]	[illegible]
			[illegible]
213	[illegible]	[illegible]	[illegible]
233	[illegible]	[illegible]	[illegible]
330	[illegible]	[illegible]	[illegible]
			[illegible]
337	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
402	[illegible]	[illegible]	[illegible]

Groundwater Hydrographs - Shallow

22S/24E-23J01



LSD Elev. 315

22/25-25

U.S. DEPARTMENT OF THE INTERIOR - BUREAU OF RECLAMATION - REGION II

WELL LOG

22-25-25N1

County Tulare | Owner Cordoza Bros/ | U.S.B.R. No. 22-25-25
Dist. | Use Irrigation | Local No.
Quad. Saucelito School | Driller [illegible] & Graham | Date March 25, 1937
Location 22-25-25 (0.25 - 0.07)

Surf. Elev. 315 | Groundwater Elev. | Date
Depth 437 | Groundwater Elev. | Date
Yield | Aquifers
Drawdown | Artesian head | Date
Casing | % Sand-Gravel

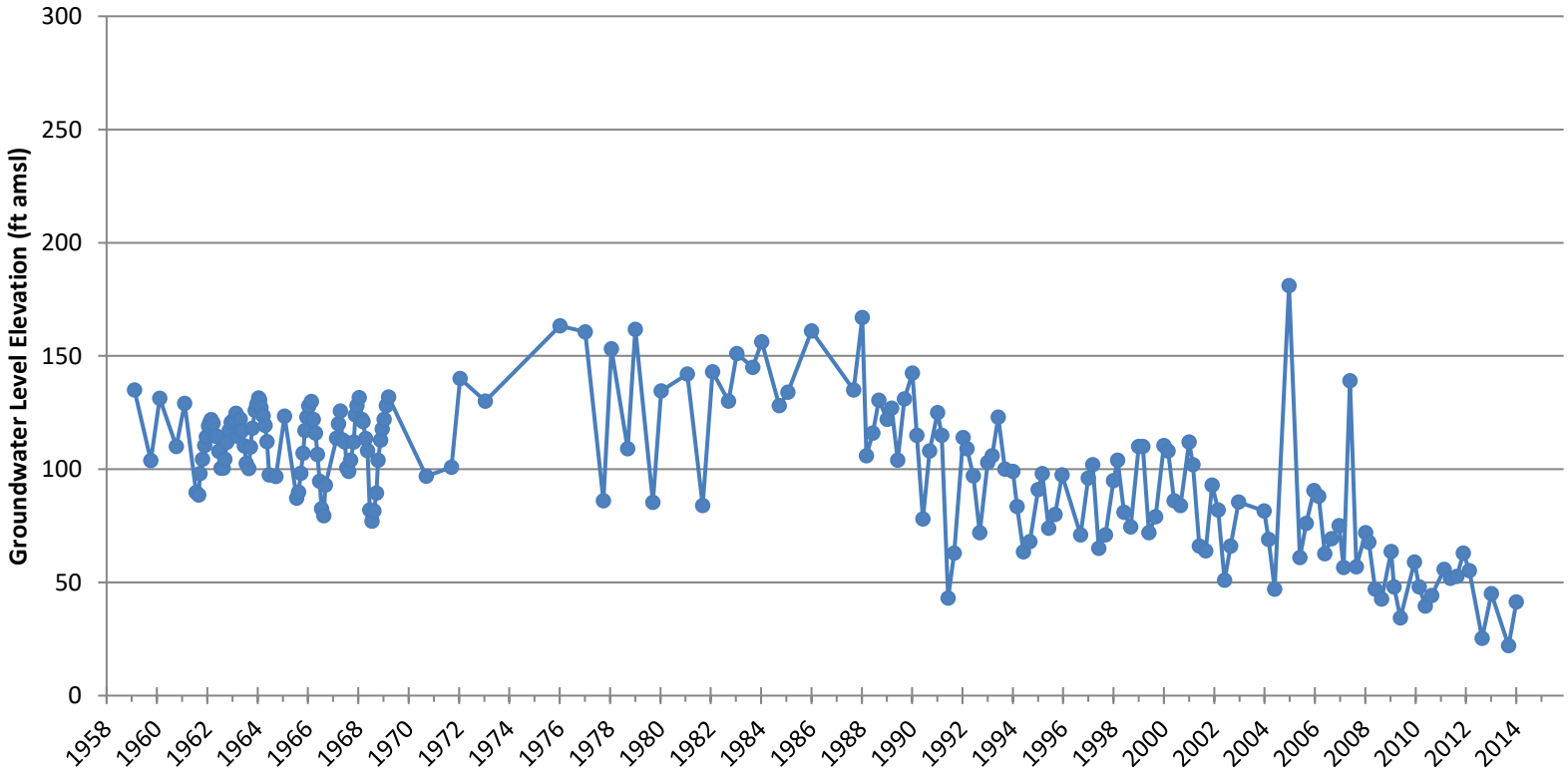
Source of data Anderson | Type drill Cable-Tools | Diam. hole 12"

Depth	Elev.	Thick	Description
0	315	14	(Sandy loam - light brown, fine grained very sandy loam, relatively permeable)
14	301	6	(Sand and gravel - light brown, poorly sorted, subrounded, 0.75 mm to 1.00 mm in diameter, loose quartz sand and subrounded quartz gravel up to 2.5mm)
20	295	36	(Sand, gravel and silt, brown, subrounded, 0.75mm to 1.00 mm in diameter, quartz sand, subrounded gravel up to 3.0 mm, and some silt)
56	259	64	(Same as above)
120	195	14	Sandy clay
134	181	26	(Sandy loam - [illegible] brown hard, sandy loam, relatively impermeable
160	155	70	(Sandy loam, brown, soft, sandy loam, poor permeability)
230	85	15	(Sandy clay, brown, hard, sandy clay, relatively impermeable)
245	70	3	(Silt - brown, very soft, silt, relatively impermeable)
248	67	156	(Sandy loam - brown, compact, very sandy loam, relatively impermeable)
404	-89	4	Sand - [illegible], subrounded, 0.50mm to [illegible] mm, sand, [illegible] quartz, contains some silt)
408	-93	3	(Sand [illegible], subangular to subrounded, 0.50 mm to [illegible] mm in diameter, quartz sand)
411	-96	26	Sandy clay - brown, hard, sandy clay, relatively impermeable)
437	-122		(Sand - [illegible], subangular to subrounded, 0.50mm to 1.00 mm in diameter, quartz sand) Bottom of well

50	100	200
54	50	100
40	50	100

Groundwater Hydrographs - Shallow

22S/25E-25N01



23/24-16R1

USBR TEST WELL
23/24-16R1

(December 1940)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

No. 23-24-16B

Other Nos.

WELL LOG

Depth 1400'

elev 224'

State _____ County TULARE Subarea _____

Owner USBR

Location 99-.01

Drilled by USBR Address _____

Date 10/51 Casing diam. _____ Land-surf. alt. 224'

Core data 40-50, 90-98, 140-150, 190-200, 240-250, 290-300, 340-350, 390-400, 450-600,
Source of data 640-700, 790-800, 890-900, 990-994, 1090-1100, 1190-1203, 1270-1280, 1390-1400

(Enter type of well, perforations, yield, and drawdown at end of log)

Correlation	Material	Thickness (feet)	Depth (feet)
	No core		0
	Sand	10	40
	Sandy Clay	35	50
	Sand	10	85
	Sandy Clay	48	95
	Clay	7	143
	Sandy Clay	~~10~~	150
	Sand	20	290
	Sandy Clay	15	240
	Sand	7	255
	Sandy Clay	58	262
	Clay	23	320
	Sand	5	343
	Clay	5	348
	Sandy Clay	22	353
	Clay	10	375
	Sandy Clay	5	385

Record by Goldman Date 7/20/53

Sheet 1 of 5

U. S. GOVERNMENT PRINTING OFFICE 16—61887-1

23/24-16R1

(December 1949)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

USBR Test Well

No. 23-24-16 & R1

Other Nos. _____

WELL LOG

State _____ County _____ Subarea _____

Owner _____

Location _____

_____

Drilled by _____ Address _____

Date _____ Casing diam. _____ Land-surf. alt. _____

Source of data _____

(Enter type of well, perforations, yield, and drawdown at end of log)

Correlation	Material	Thickness (feet)	Depth (feet)
	Sand	80	390
	Clay	5	470
	Sandy Clay	15	475
'Corcoran Clay' ±501'-553'	Clay	70	490
	Sand	7	560
	Sandy Clay	13	567
	Sand	5	580
	Sandy Clay	30	585
	Sand	7	615
	Sandy Clay	33	622
	Sand	5	655
	Sandy Clay	5	660
	Sand	10	665
	Sandy Clay	40	675
	Sand	17	715
	Sandy Clay	7	732
	Sand	6	739

Record by _____ Date _____

Sheet 2 of 5

U. S. GOVERNMENT PRINTING OFFICE 16—61587-1

23/24-16R1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

USBR TEST WELL

No. 23-24-16B R1

Other Nos. _____

WELL LOG

State _____ County _____ Subarea _____

Owner _____

Location _____

_____

Drilled by _____ Address _____

Date _____ Casing diam. _____ Land-surf. alt. _____

Source of data _____

(Enter type of well, perforations, yield, and drawdown at end of log)

Correlation	Material	Thickness (feet)	Depth (feet)
	Sandy Clay	30	745
	Sand	7	775
	Sandy Clay	8	782
	Sand	11	790
	Sandy Clay	6	801
	Sand	5	807
	Sandy Clay	18	812
	Sand	10	830
	Sandy Clay	10	840
	Sand	4	850
	Sandy Clay	6	854
	Sand	10	860
	Sandy Clay	10	870
	Sand	8	880
	Sandy Clay	12	888
	Sand	5	900
	Sandy Clay	20	905

Record by _____ Date _____

Sheet 3 of 5

U. S. GOVERNMENT PRINTING OFFICE 16—61887-1

23/24-16R1

USGR Test Well

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

No. 23-24-16&R1

OTHER NOS. _____

WELL LOG

State _____ County _____ Subarea _____

Owner _____

Location _____

_____

Drilled by _____ Address _____

Date _____ Casing diam. _____ Land-surf. alt. _____

Source of data _____

(Enter type of well, perforations, yield, and drawdown at end of log)

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Sand	5	925
	Sandy Clay	5	930
	Sand	4	935
	Sandy Clay	26	939
	Sand	8	965
	Sandy Clay	42	973
	Sand	40	1015
	Clay	5	1055
	Sandy Clay	30	1060
	Sand	10	1090
	Sandy Clay	10	1100
	Sand	25	1110
	Sandy Clay	15	1135
	Sand	35	1150
	Clay	8	1185
	Sand	7	1193
	Clay	3	1200

RECORD BY _____ DATE _____

SHEET 4 OF 5

U. S. GOVERNMENT PRINTING OFFICE 16—61887-1

23/24-16R1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

USBR TEST WELL

No. 23-24-16 BR 1

Other Nos. _____

WELL LOG

State _____ County _____ Subarea _____

Owner _____

Location _____

_____

Drilled by _____ Address _____

Date _____ Casing diam. _____ Land-surf. alt. _____

Source of data _____

(Enter type of well, perforations, yield, and drawdown at end of log)

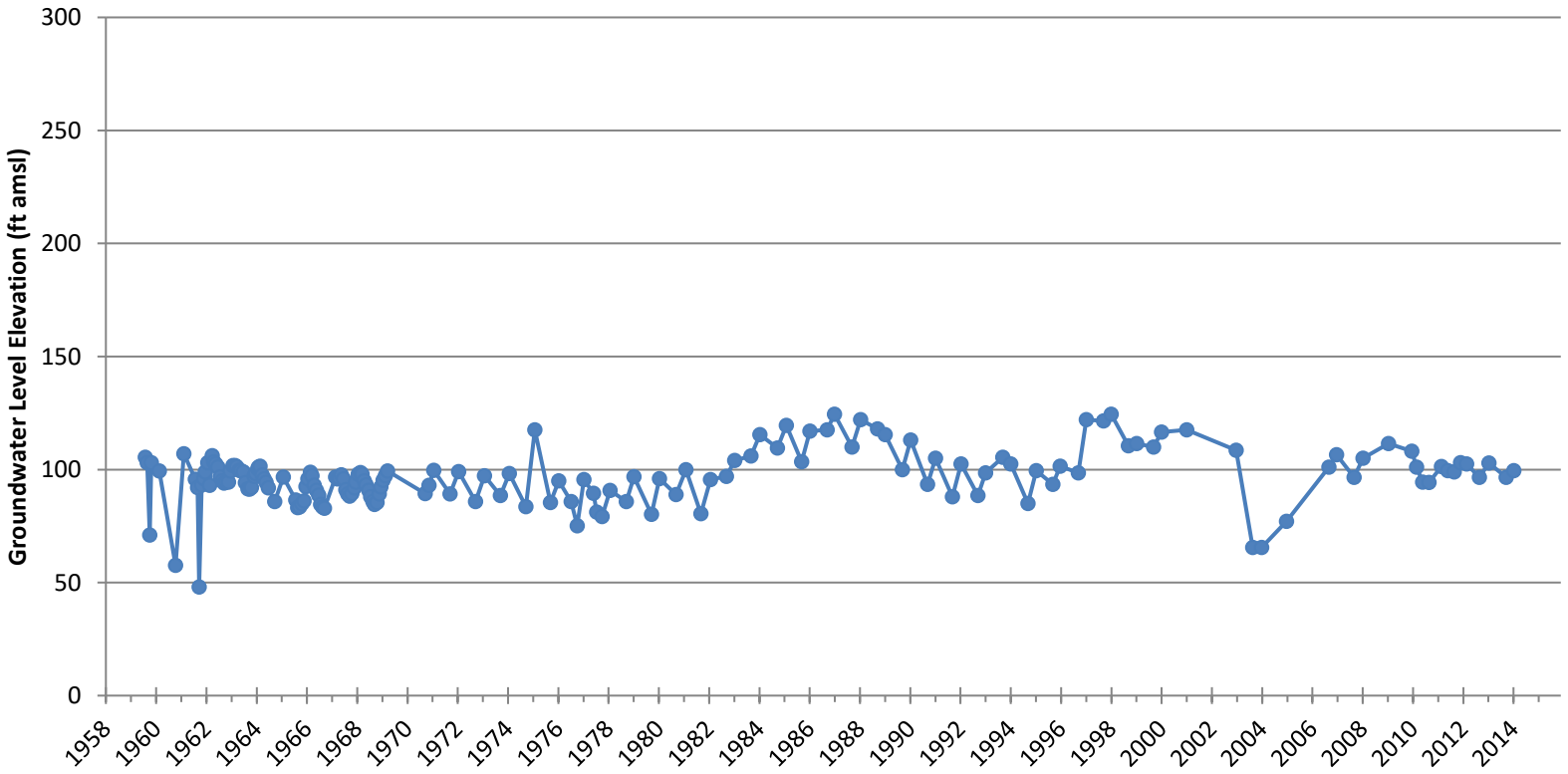
Correlation	Material	Thickness (feet)	Depth (feet)
	Sandy Clay	17	1203
	Sand	10	1220
	Sandy Clay	12	1230
	Sand	6	1242
	Sandy Clay	7	1248
	Sand	3	1255
	Sandy Clay	7	1258
	Sand	25	1265
	Sandy Clay	3	1290
	Sand	7	1293
	Sandy Clay	7	1300
	Sand	11	1307
	Sandy Clay	3	1318
	Sand	41	1321
	Sandy Clay	15	~~1400~~ 1362
	Sand	23	1377
	B. H.		1400

Record by _____ Date _____ Sheet 5 of 5

U. S. GOVERNMENT PRINTING OFFICE 16—61587-1

Groundwater Hydrographs - Shallow

23S/24E-16R01



TRIPLICATE
Owner's Copy

Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. EO117919

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. MW-6
Date Work Began 9/24/2010, Ended 9/24/2010
Local Permit Agency ENVIRO HEALTH, TULARE
Permit No. 10-0338 Permit Date 8/30/2010

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD ROTARY FLUID WATER

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0	20	TOP SOIL, MEDIUMFINE/COARSE SANDS
20	40	MEDIUM/FINE/COARSE SANDS
40	80	EDIUM/FINE/COARSE SANDS WITH SOME CLAY
80	120	MEDIUM/FINE/COARSE SANDS WITH MORE
		CLAY
120	140	MEDIUM/FINE/COARSE SANDS, WITH SOME
		CLAY
140	160	MEDIUM/FINE/COARSE SANDS WITH SOME
		CLAY
160	200	MEDIUM/FINE/COARSE SANDS
200	300	MEDIUM/FINE/COARSE SANDS WITH SOME
		CLAY
300	340	MEDIUM/FINE/COARSE SANDS, SOME CLAY
		SOME D.G.
340	420	MEDIUM/FINE/COARSE SANDS WITH SOME
		CLAY
420	560	CLAY WITH SOME SANDS
560	620	CLAY WITH MORE SANDS MEDIUM/FINE
620	680	CLAY WITH SOME MEDIUM/FINE SANDS
680	720	MOSTLEY CLAY
720	740	CLAY WITH SOME MEDIUM/FINE SANDS
740	760	MEDIUM/FINE/COARSE SANDS WITH SOME
		CLAY AND SHALE
760	810	MEDIUM/FINE/COARSE SANDSWITH CLAY

TOTAL DEPTH OF BORING 810 (Feet)
TOTAL DEPTH OF COMPLETED WELL 805 (Feet)

WELL OWNER

Name SURINDERPAL GILL
Mailing Address 16964 AVENUE 32
DELANO CA 93215
CITY STATE ZIP

WELL LOCATION

Address 1/2 MI N AVE. 26 & 1/2 MI E. ROAD 16
City DELANO CA 93215
County TULARE
APN Book 3381 Page 003 Parcel 24
Township 24 Range 26 Section 17
Latitude ___ DEG. ___ MIN. ___ SEC. ___ DEG. ___ MIN. ___ SEC.

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)
✓ NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)
WATER SUPPLY
___ Domestic ___ Public
___ Irrigation ___ Industrial
MONITORING ✓
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___
ESTIMATED YIELD * ___ (GPM) & TEST TYPE AIR LIFT
TEST LENGTH 4 (Hrs.) TOTAL DRAWDOWN ___ (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
#1										
0	200	16"	✓				PVC	4"	SCH 40	
200	350	16"		✓			PVC	4"	SCH 40	.030
#2										
0	705	12 1/4"	✓				PVC	4"	SCH 40	
705	805	12 1/4"		✓			PVC	4"	SCH 40	.030

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	130	✓			
360	370		✓		
464	474		✓		
590	600		✓		
630	640		✓		
660	670		✓		

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analysis
___ Other ___
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

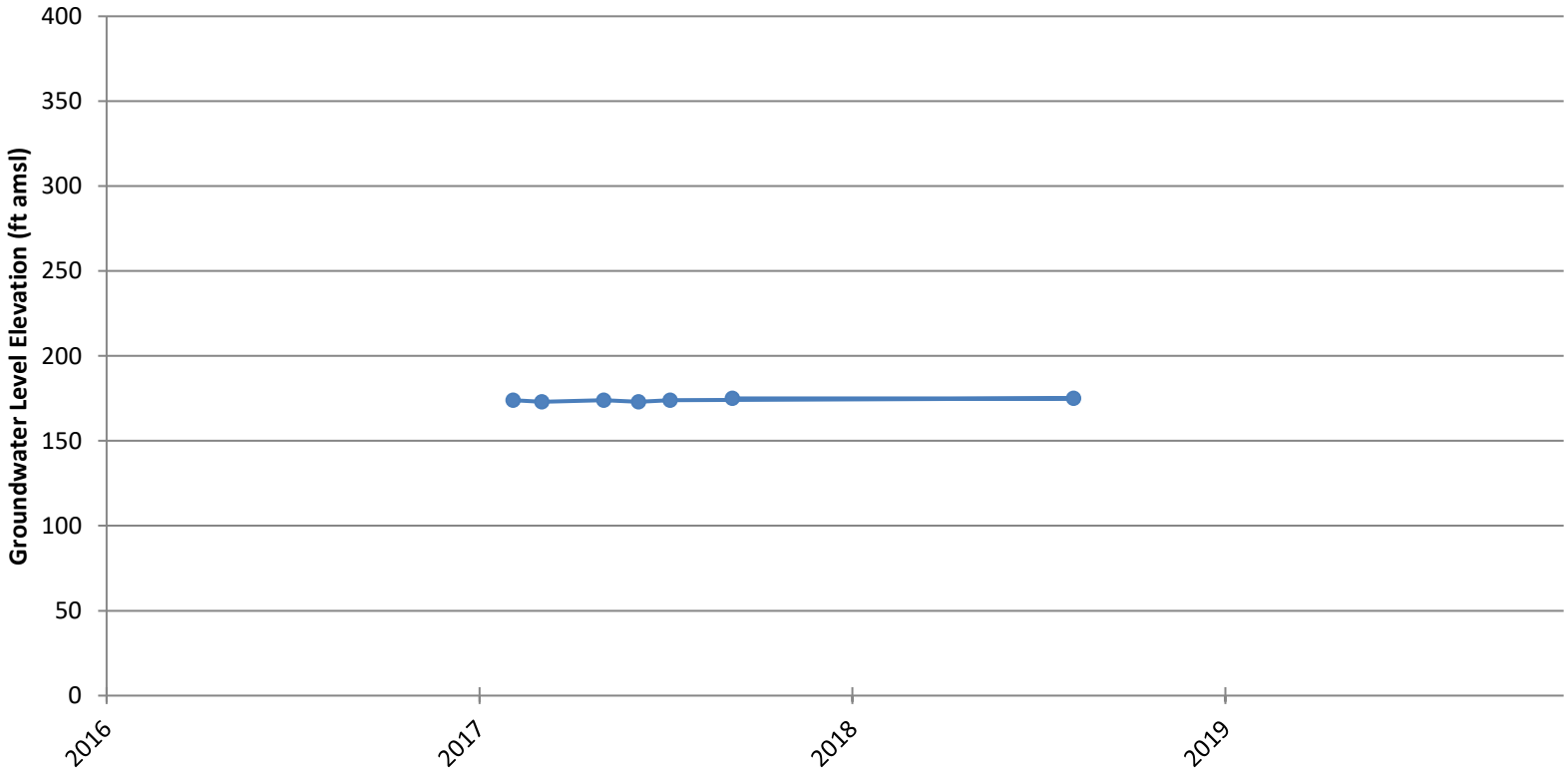
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME BRADLEY & SONS
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
3625 S. HIGHLAND DEL REY CA 93616
ADDRESS CITY STATE ZIP
Signed Donna Bodine 10/06/10 414178
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Groundwater Hydrographs - Shallow

M-19 (Formerly MW-6)



24/26-32G1

24/26-32G1

UNITED ST TES DEPARTMENT OF THE INTERIOR - BUREAU OF RECLAMATION

WELL LOG

Sierra Vista Ranch

County	Tulare	Owner		U.S.B.R. No.	24-26-32 G
Dist.	Delano-Earlimart	Use		Local No.	[illegible]
Quad.	Delano	Driller	H. Bainbridge	Date	[illegible]
Location	Center of NW quarter of [illegible] Sec. 32.				

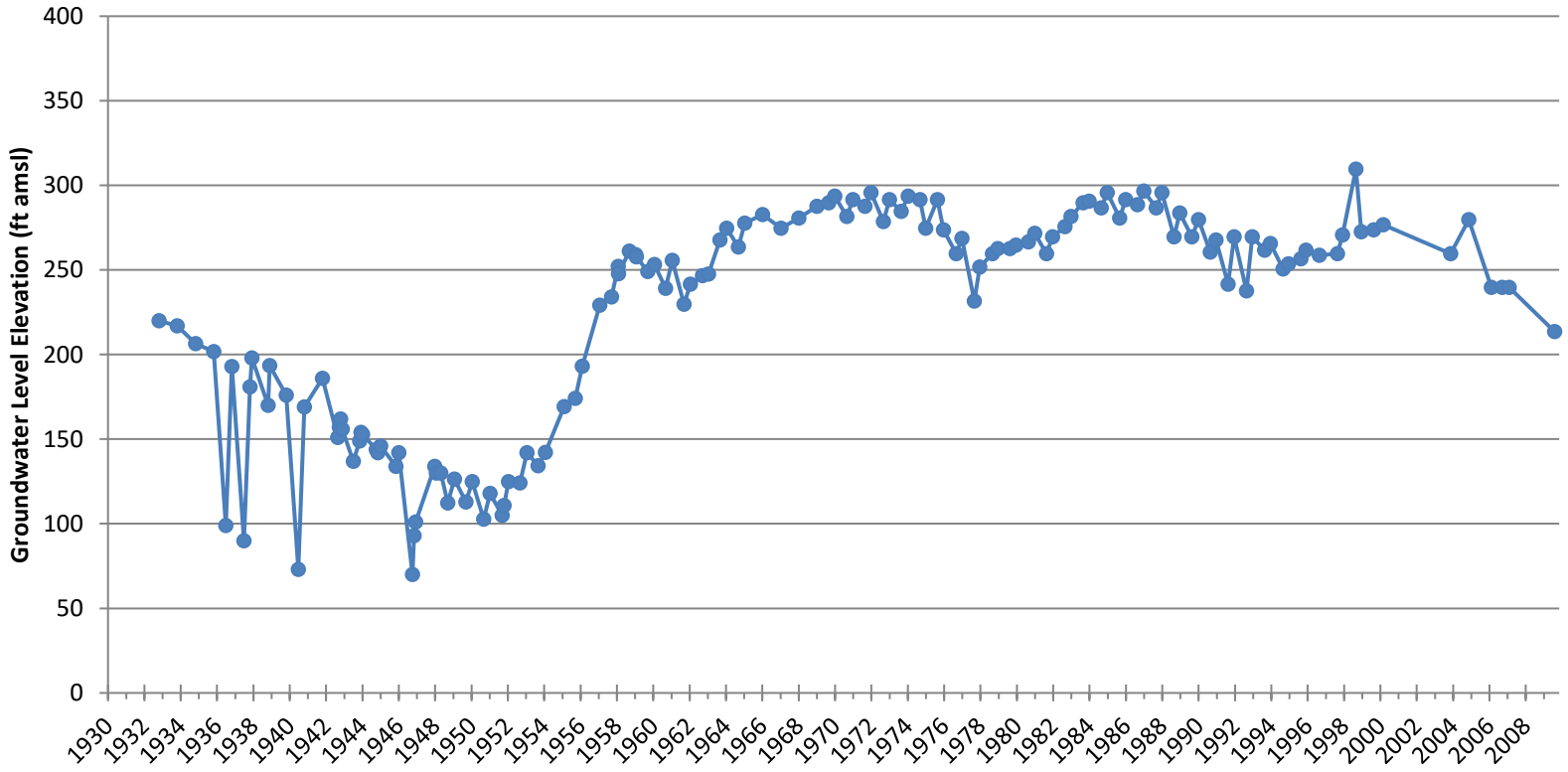
Surf. Elev.	893	Groundwater elev.		Date	
Depth	470	Groundwater elev.		Date	
Yield		Aquifers			
Drawdown		Artesian head		Date	
Casing		% Sand-gravel			

Source of data ______ Type drill cable tool Diam. hole 16"

Depth	Elev.	Thick.	Description
0	893	135	top soil and (sand and clay)
135	758	5	water sand
140	753	35	clay
175	718	16	good water gravel
191	702	17	clay
208	685	9	water sand
217	676	31	clay
248	645	12	water sand
260	633	49	clay
[illegible]	584	7	water sand
316	577	20	clay and silt
336	557	12	lime stone
348	545	8	water sand
356	537	22	clay
378	515	7	water sand
385	508	85	clay and shale
470	423		bottom of hole

Groundwater Hydrographs - Shallow

24S/26E-32G01



ORIGINAL
File with DWR

22/23-30

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 396637

Page ___ of ___
Owner's Well No. Angiola #1
Date Work Began 3-25-92, Ended 3-25-92
Local Permit Agency Tulare
Permit No. 63779 Permit Date 3-23-92

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION - *Describe material, grain size, color, etc.*
0 : 5	Top Soil
5 : 24	clay
24 : 26	sand
26 : 44	clay
44 : 49	sand
49 : 86	clay
86 : 104	sand
104 : 140	clay
140 : 144	sand
144 : 186	clay
186 : 192	sand
192 : 200	clay
200 : 208	sand
208 : 218	clay
218 : 224	sand
224 : 280	clay
280 : 284	sand
284 : 288	clay
288 : 309	sand
309 : 315	clay
315 : 330	sand
330 : 334	clay
334 : 339	sand
339 : 344	clay
344 : 351	sand
351 : 354	clay
354 : 373	sand
373 : 377	clay
377 : 419	sand
419 : 433	clay
433-437	sand
437-439	clay
439-444	sand
444-450	clay

UNCONFINED

TOTAL DEPTH OF BORING 460 (Feet)
TOTAL DEPTH OF COMPLETED WELL 450 (Feet)

WELL OWNER

Name Sunny Quillin
Mailing Address 12667 Rd. 96
Tipton, CA 93272
CITY STATE ZIP

WELL LOCATION

Address ½ mi S. of Ave. 112 & 50 ft. W. of Rd 24
City Corcoran
County Tulare
APN Book Echoe Page 78 Parcel 291-130-01
or
Township 22S Range 23E Section 30
or
Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH
WEST
EAST
SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING
WATER SUPPLY
___ Domestic
___ Public
X Irrigation
___ Industrial
___ "TEST WELL"
___ CATHODIC PROTECTION
___ OTHER (Specify)

DRILLING METHOD Reverse FLUID Natural

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___
ESTIMATED YIELD* ___ (GPM) & TEST TYPE ___
TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)
* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL/GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0 : 240	30	X				steel	15.5	1/4	
240 : 450	30		X			louver	15.5	1/4	.070

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0 : 20	X			
20 : 450				5/16x4

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Grabow Well Drilling, Inc.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

12522 9th Ave. Hanford, CA 93230
ADDRESS CITY STATE ZIP

Signed Dean E Grabow
WELL DRILLER/AUTHORIZED REPRESENTATIVE

3-29-92
DATE SIGNED

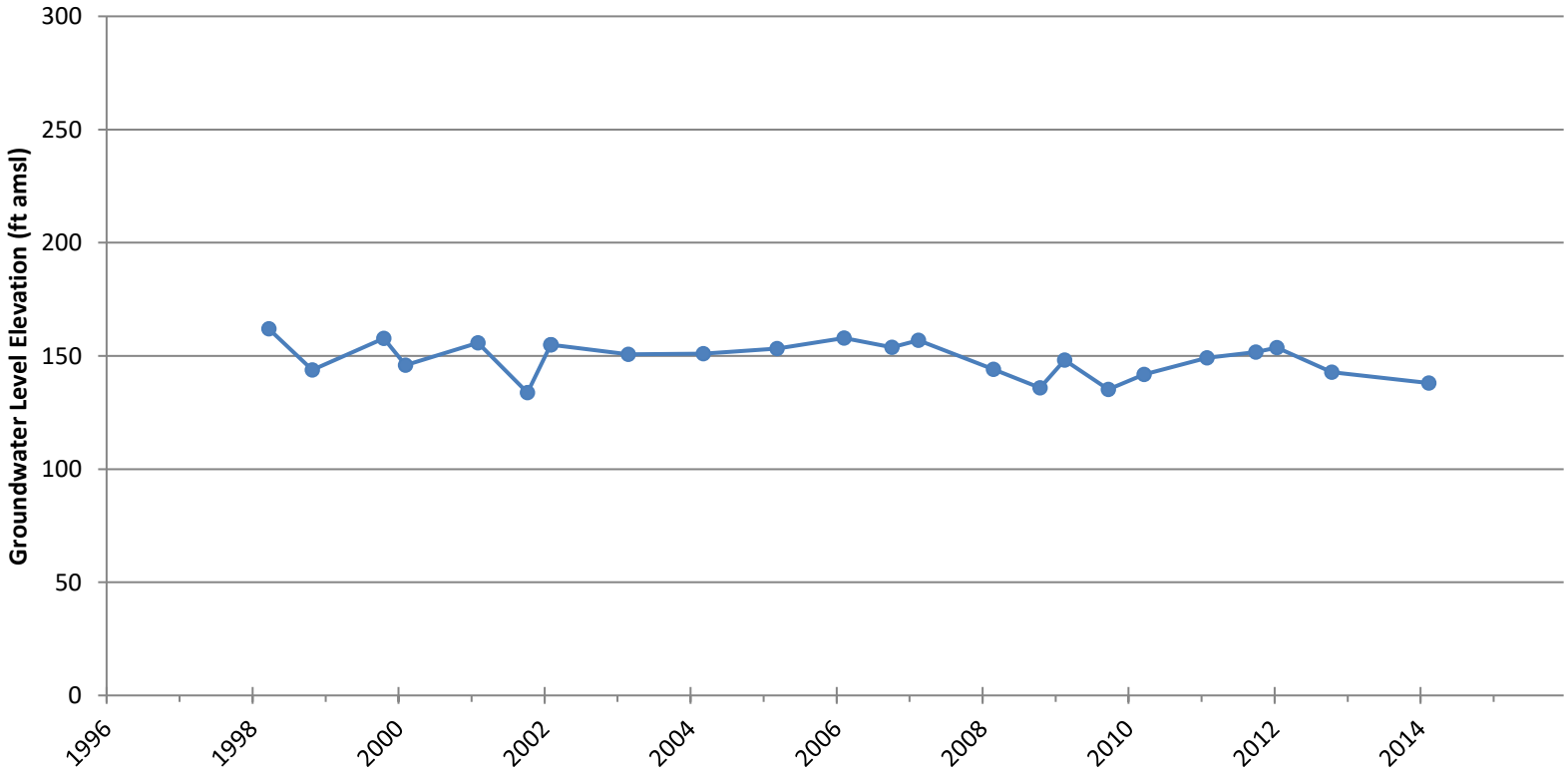
288489
C-57 LICENSE NUMBER

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Groundwater Hydrographs - Shallow

22S/23E-30J01



TRIPLICATE
Owner's Copy

Page 1 of 2

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. E054449

DWR USE ONLY -- DO NOT FILL IN
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. 20-E
Date Work Began 6/20/2007, Ended 6/27/2007
Local Permit Agency TULARE COUNTY
Permit No. 07-0221 Permit Date 5/16/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)
DRILLING METHOD REVERSE FLUID

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0	4	TOP SOIL
4	7	MEDIUM SAND
7	45	SANDY BROWN CLAY
45	50	COARSE SAND & BROWN CLAY
50	53	SAND (MEDIUM COARSE)
53	54	BROWN CLAY
54	58	SAND (MEDIUM COARSE)
58	61	SAND & CLAY
61	70	SAND (MEDIUM COARSE)
70	93	CLAY BROWN
93	104	SAND (MEDIUM COARSE)
104	116	SAND & CLAY
116	121	BROWN CLAY
121	124	SAND & CLAY
124	130	BROWN CLAY
130	141	SAND (MEDIUM COARSE)
1471	150	BROWN CLAY
150	152	SAND (MEDIUM)
152	159	BROWN CLAY
159	160	SAND & CLAY
160	163	BROWN CLAY
163	169	SAND & CLAY
169	178	SAND
178	181	BROWN CLAY
181	183	SAND & CLAY
183	200	BROWN CLAY
200	202	SAND
202	214	BROWN CLAY
214	217	SAND (MEDIUM COARSE)
217	219	BROWN CLAY

TOTAL DEPTH OF BORING 500 (Feet)
TOTAL DEPTH OF COMPLETED WELL 490 (Feet)

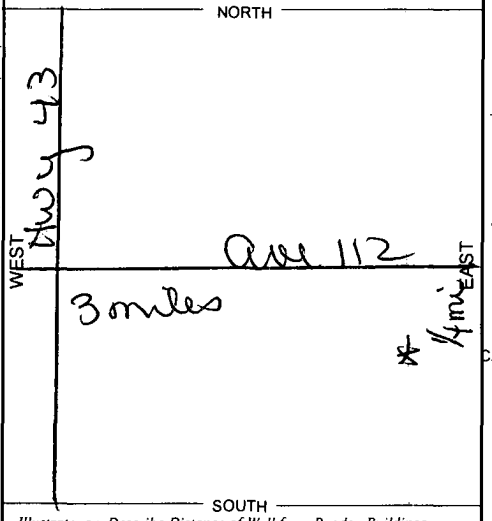
WELL OWNER

Name ANGIOLA WATER DIST.
Mailing Address 944 WHITLEY AVE. SUITE
CORCORAN CA 93212
CITY STATE ZIP

WELL LOCATION

Address AVE 112
City ANGIOLA CA
County TULARE
APN Book 293 Page 230 Parcel 01
Township 22 S Range 23 E Section 28
Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)
✓ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)
— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)
WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial
MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER — (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL — (Ft.) & DATE MEASURED
ESTIMATED YIELD * — (GPM) & TEST TYPE
TEST LENGTH — (Hrs.) TOTAL DRAWDOWN — (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	240	30"	✓				STEEL	18" OD	5/16"	
240	480	30"		✓			STEEL	18" OD	5/16"	.050 SLO
480	490	30"	✓				STEEL	18" OD	5/16"	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			6 SACK
0	500				MIX 6 X 16 & 1/4

ATTACHMENTS (✓)

— Geologic Log
✓ Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP
Signed Carla Harrell 06/28/07 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD01807

TRIPLICATE
Owner's Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. E054449

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. 20-E
Date Work Began 6/20/2007, Ended 6/27/2007
Local Permit Agency TULARE COUNTY
Permit No. 07-0221 Permit Date 5/16/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)
DRILLING METHOD REVERSE FLUID

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
219	222	SAND (MEDIUM COARSE)
222	245	BROWN CLAY
245	261	SAND & CLAY
261	282	BROWN CLAY
282	318	SAND (COARSE MEDIUM)
318	326	SANDY BROWN CLAY
326	331	COARSE SAND
331	345	SANDY BROWN CLAY
345	348	COARSE SAND
348	362	SANDY BROWN CLAY
362	367	SANDY BLUE CLAY
367	376	COARSE SAND
376	382	SANDY BLUE CLAY
382	385	COARSE SAND
385	387	SANDY BLUE CLAY
387	389	COARSE SAND
389	393	COARSE SAND & GRAVEL
393	398	COARSE SAND
398	406	SANDY BLUE CLAY
406	408	BLUE CLAY & COARSE SAND
408	410	COARSE SAND
410	413	BLUE SANDY CLAY
413	417	COARSE SAND
417	442	SANDY BLUE CLAY
442	453	COARSE SAND
453	459	MEDIUM & COARSE SAND
459	480	SANDY BLUE CLAY
480	500	BLUE CLAY

TOTAL DEPTH OF BORING 500 (Feet)
TOTAL DEPTH OF COMPLETED WELL 490 (Feet)

WELL OWNER

Name ANGIOLA WATER DIST.
Mailing Address 944 WHITLEY AVE. SUITE
CORCORAN CA 93212
CITY STATE ZIP

WELL LOCATION

Address AVE 112
City ANGIOLA CA
County TULARE
APN Book 293 Page 230 Parcel 01
Township 22 S Range 23 E Section 28
Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH
WEST
EAST
SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

✓ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)
— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)

WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial
MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER — (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL — (Ft.) & DATE MEASURED
ESTIMATED YIELD * — (GPM) & TEST TYPE
TEST LENGTH — (Hrs.) TOTAL DRAWDOWN — (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	240	30"	✓				STEEL	18" OD	5/16"	
240	480	30"		✓			STEEL	18" OD	5/16"	.050 SLO
480	490	30"	✓				STEEL	18" OD	5/16"	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			6 SACK
0	500				MIX 6 X 16 & 1/4

ATTACHMENTS (✓)

— Geologic Log
✓ Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME MYERS BROS. WELL DRILLING, INC.
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ADDRESS CITY STATE ZIP
Signed WELL DRILLER/AUTHORIZED REPRESENTATIVE
06/28/07 DATE SIGNED
548214 C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD01808

9-185—July 1935
Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

WELL SCHEDULE

Date OCT. 10, 1950 Field No. 22/23-21L1
Record by MEE Office No.
Source of data PE

1. *Location:* State California County TULARE
Map ~~LAKE VIEW~~ TAYLOR WEIR 5-429C
¼ ¼ sec. T N/S R E/W
2. *Owner:* John Uden Address Rt 2 Box 20, Tulare
and Tenant Jim Burke Address BKsfld
~~Driller~~ Goldring Packing Co. Address
3. *Topography* Plain
4. *Elevation* 205 ft. above/below
5. *Type:* Dug, drilled, driven, bored, jetted 1950
6. *Depth:* Rept. 521 ft. Meas. ft.
7. *Casing:* Diam. 14 in., to in., Type
Depth ft., Finish
8. *Chief Aquifer* From ft. to ft.
Others perfs – 321'– 521'
9. *Water level* ft. rept./meas. 19 above/below
which is ft. above/below surface
10. *Pump:* Type ~~Turbine~~ Capacity G. M.
Power: Kind ~~Elec~~ Horsepower ~~50~~
11. *Yield:* Flow G. M., Pump G. M., Meas., Rept. Est.
Drawdown ft. after hours pumping G. M.
12. *Use:* Dom., Stock, PS., RR., Ind., Irr., Obs.
Adequacy, permanence
13. *Quality* Temp °F.
Taste, odor, color Sample Yes/No
Unfit for
14. *Remarks:* (Log, Analyses, etc.) D-log

U. S. GOVERNMENT PRINTING OFFICE 6—7478

Well G1

22/23-21L1

PLOTTED FEB 1970

100 FT W of DITCH ON HALF
SECTION LINE
~~40 FT S of [illegible] LINE~~

0.51 miles South of ℄ Ave. 120

.52 mi. W/o Rd 40 (sec. line)
.485 mi. N/o Ave. 112 (sec. line) on W. side of canal.

Meter No. ~~[illegible]~~ 322 502

Trans. No. — 3661

Disc. Diam. ~~8 in~~ 10 Length 11 ft. into ditch ~~15 FT E into DITCH~~ 161 Ft. into ditch East of canal

Remarks

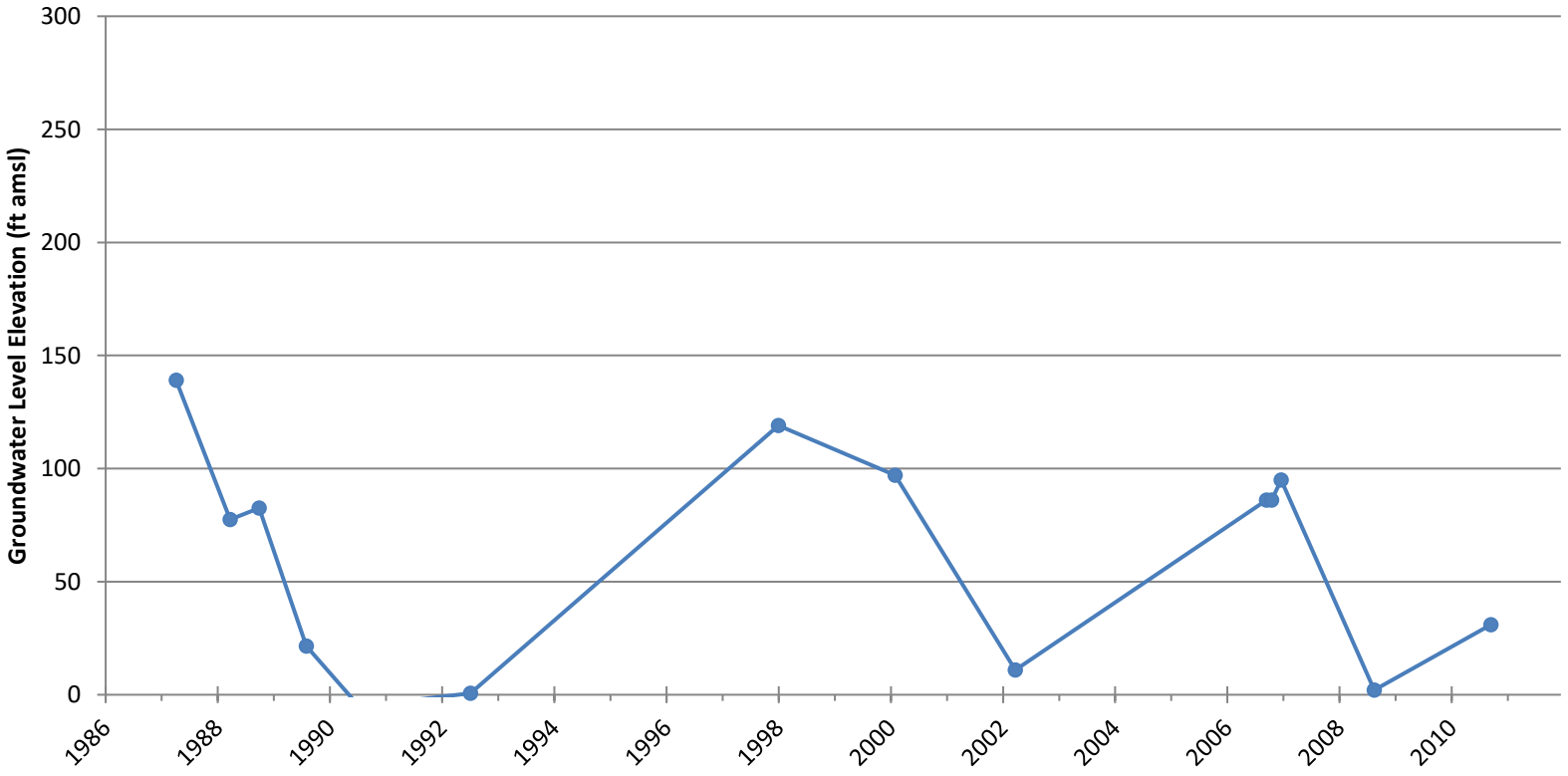
Nov. 6, 1958
Byron-Jackson turb
U.S. Elec. 75 H.P.
S.W.L. = 65.78 ft.
M.P. = T.C. W. Side which is 1.5 ft. above LSD

WL – 67.4' (12-51)

AWD02010

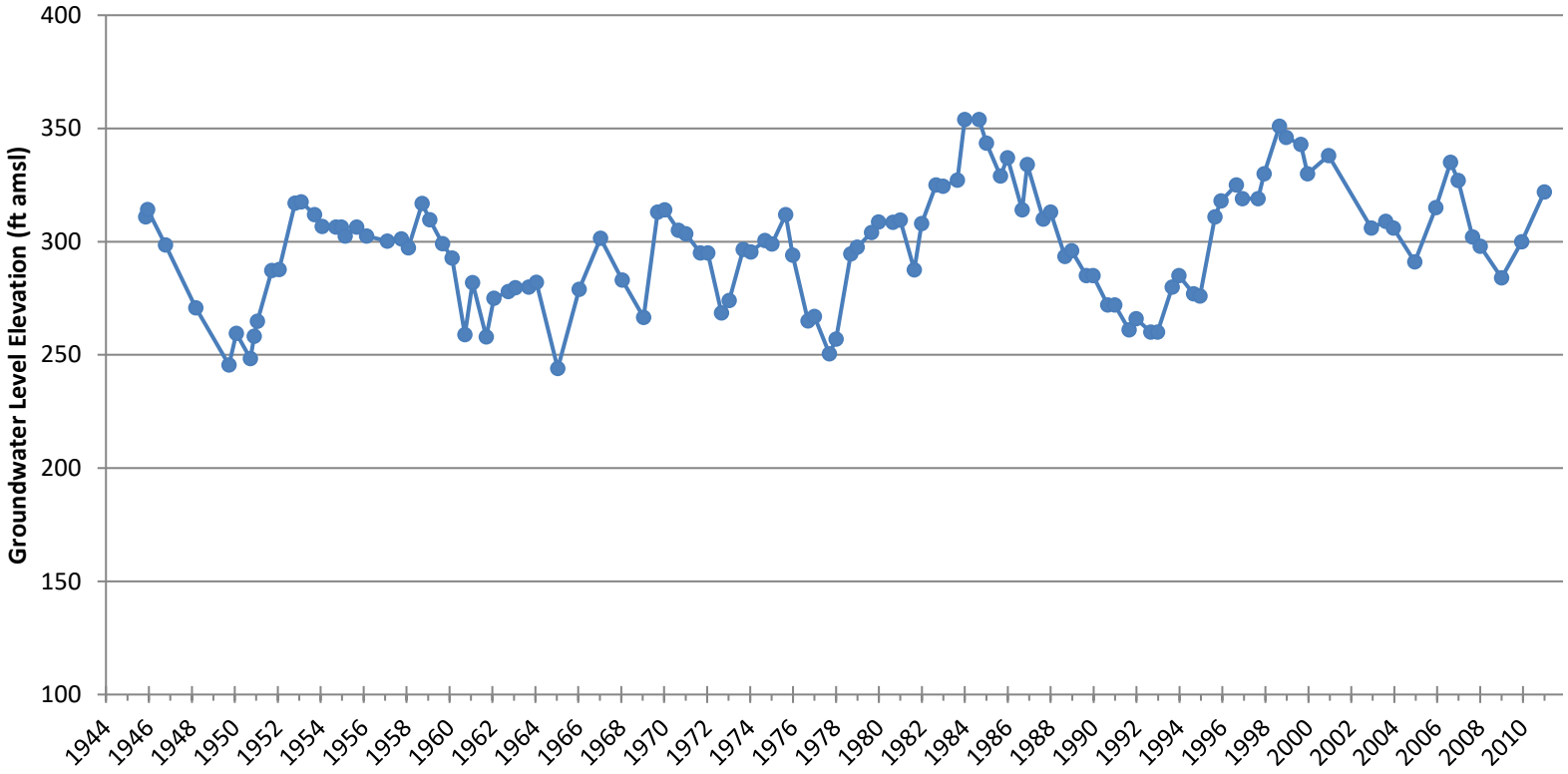
Groundwater Hydrographs - Shallow

G-1



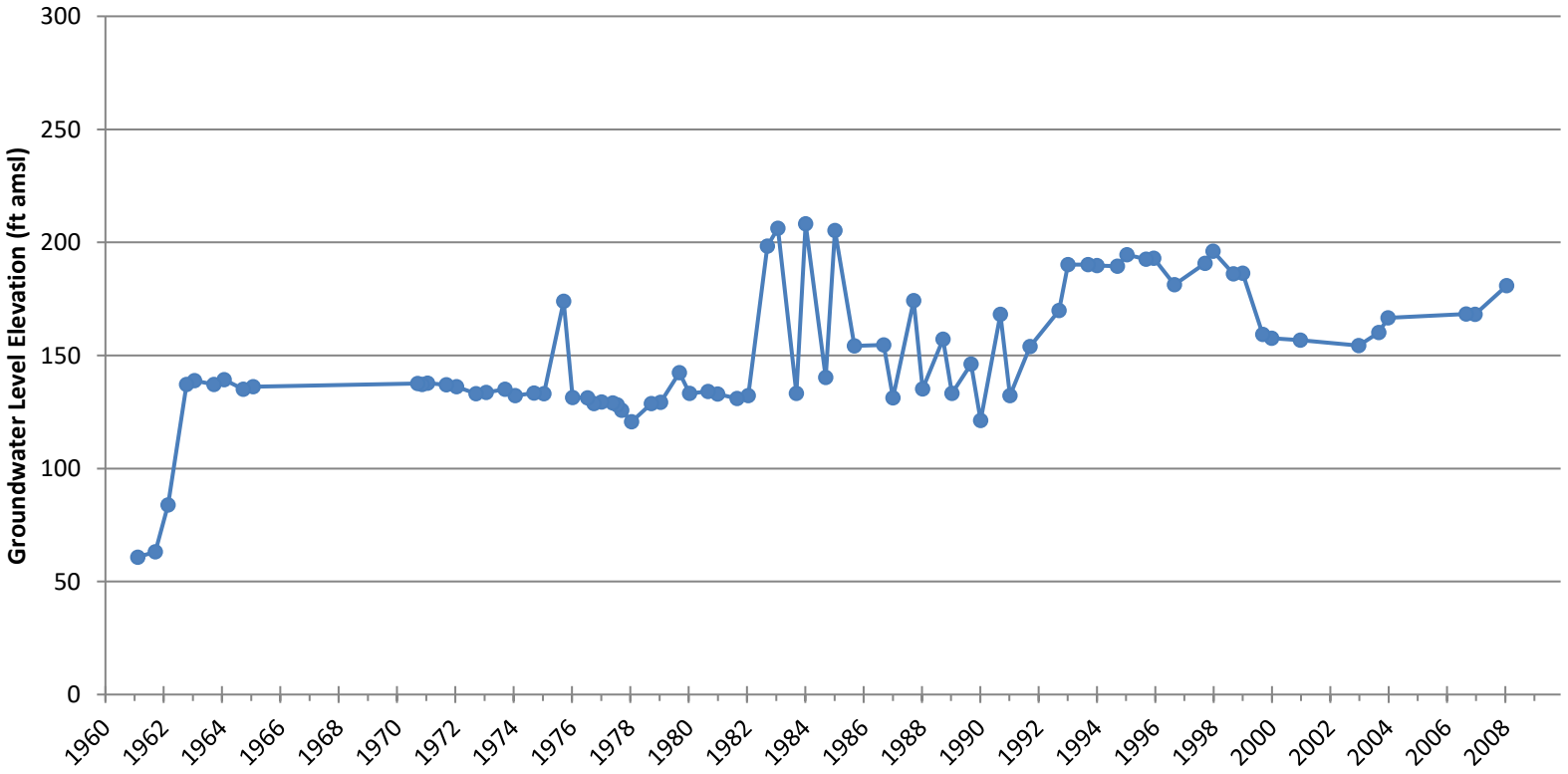
Groundwater Hydrographs - Shallow

22S/26E-25J01



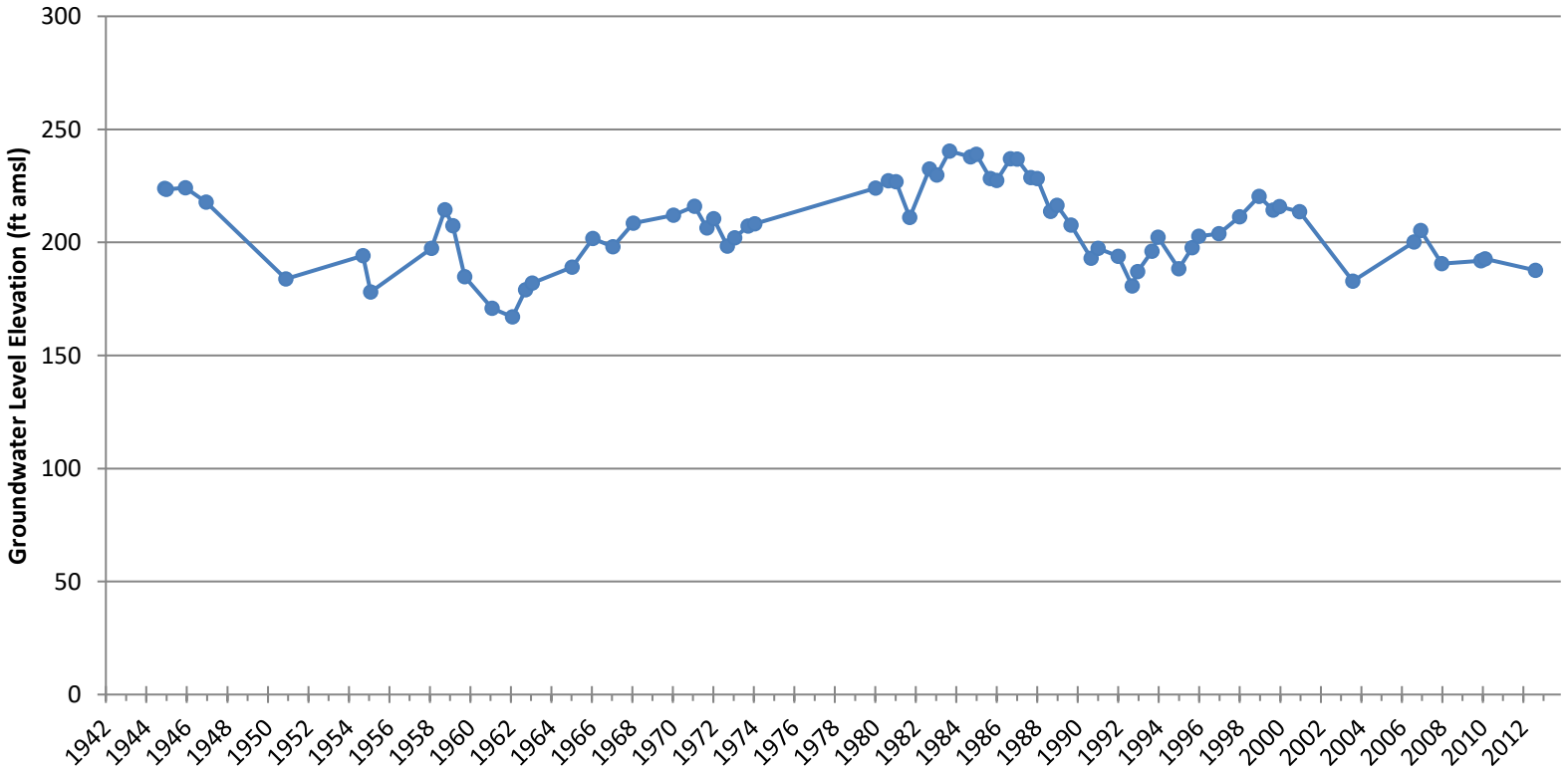
Groundwater Hydrographs - Shallow

23S/23E-33A02



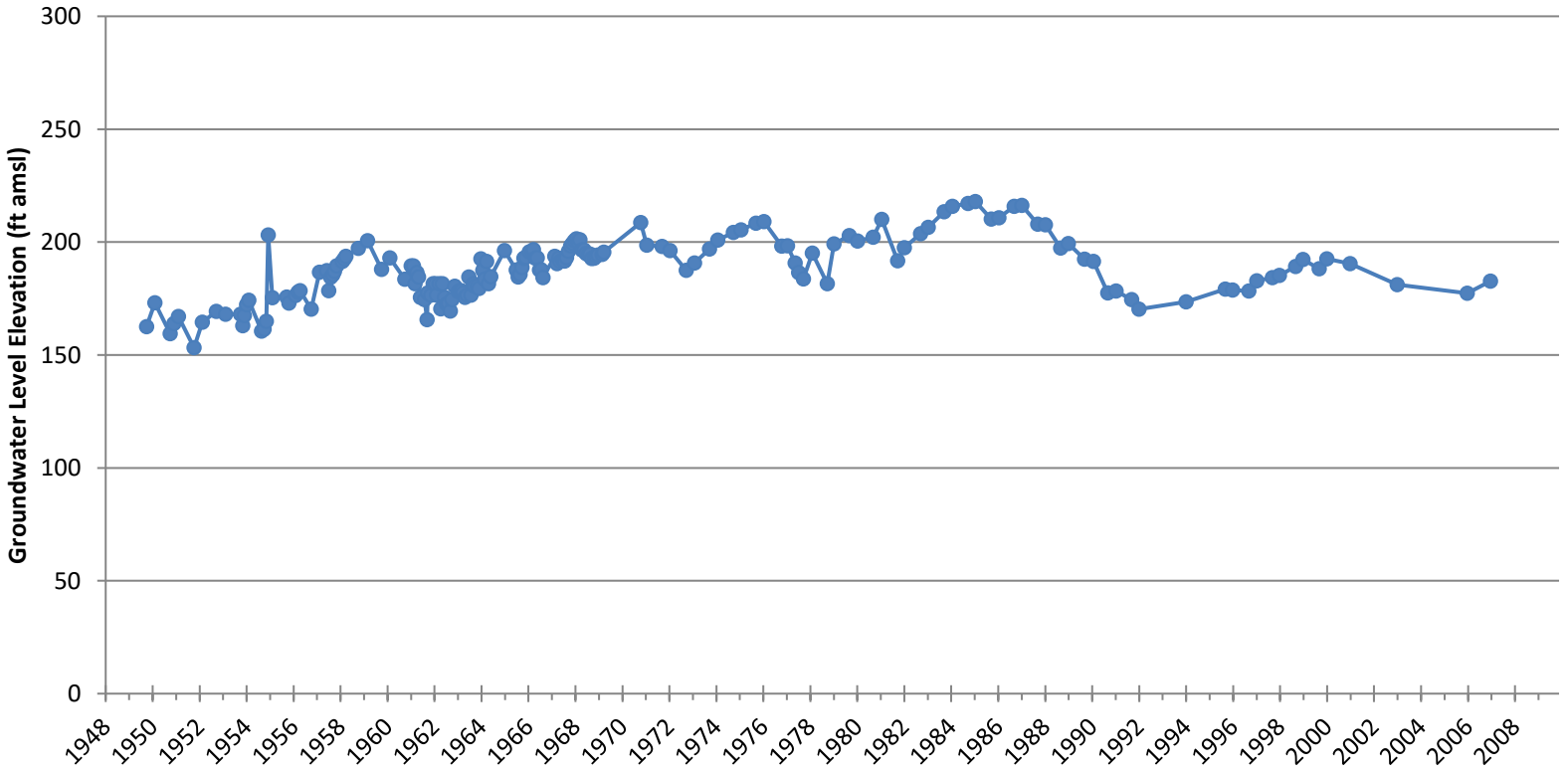
Groundwater Hydrographs - Shallow

21S/24E-15H01



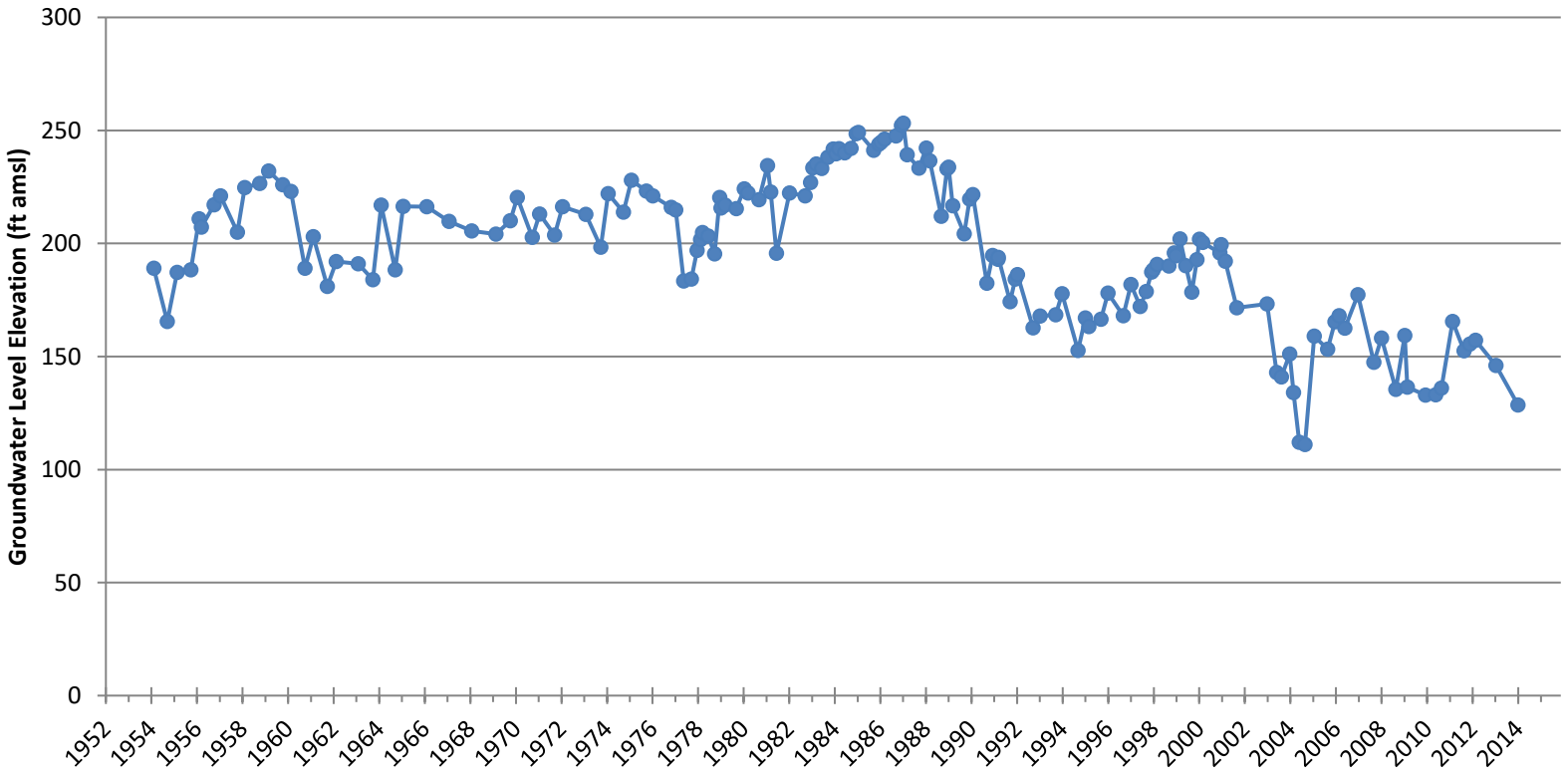
Groundwater Hydrographs - Shallow

22S/25E-10E01



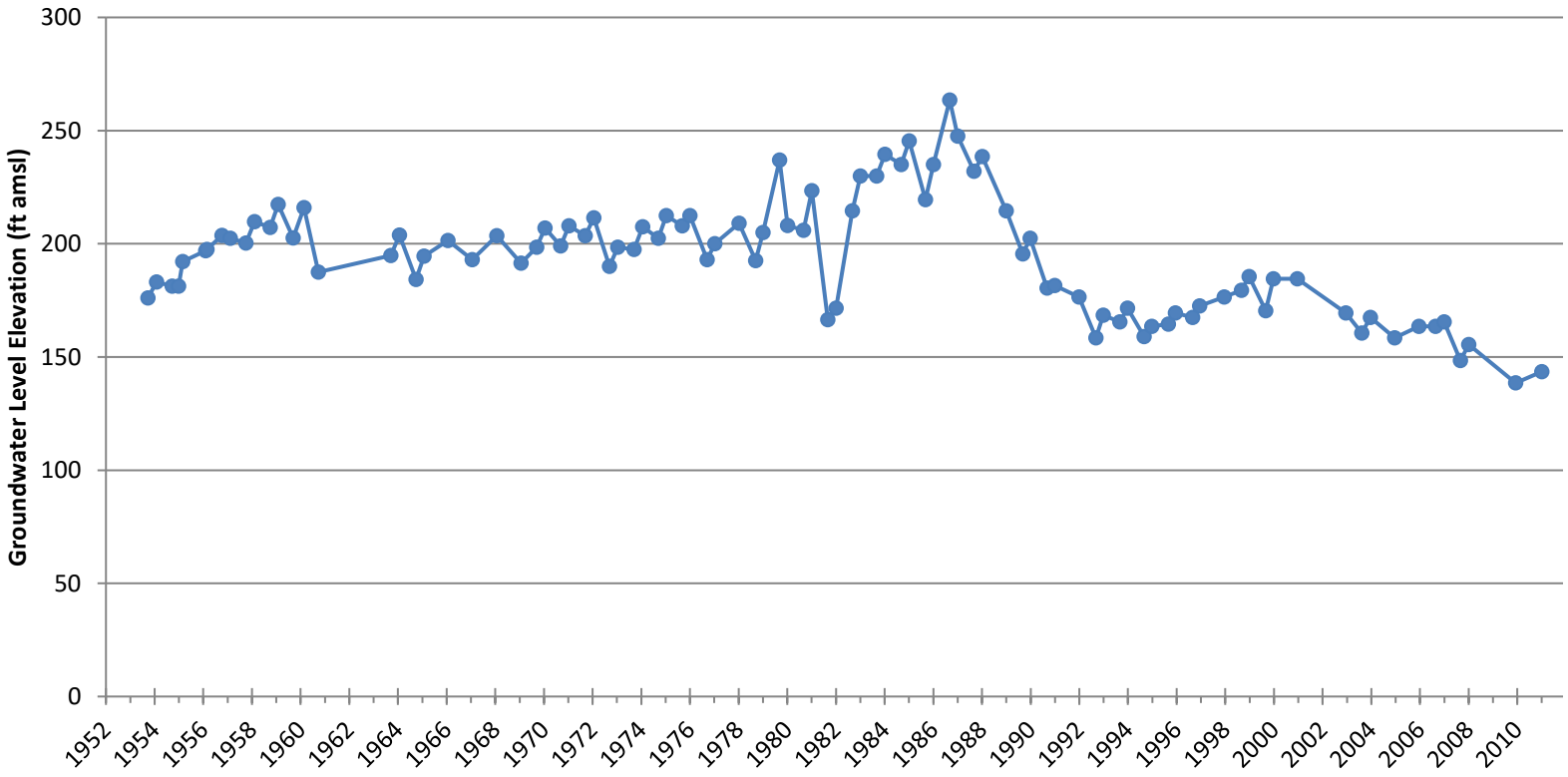
Groundwater Hydrographs - Shallow

21S/25E-36R01



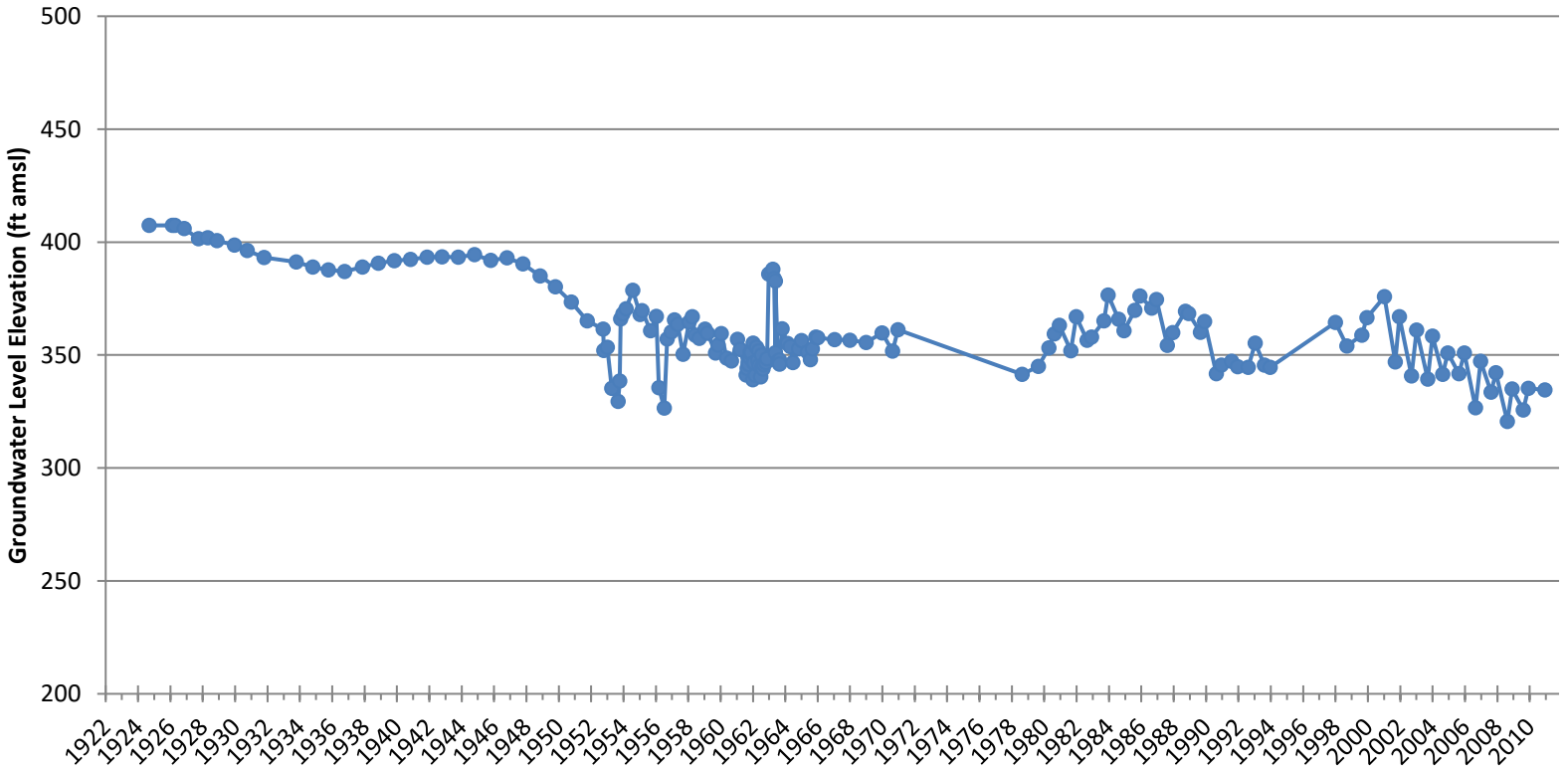
Groundwater Hydrographs - Shallow

22S/26E-07J01



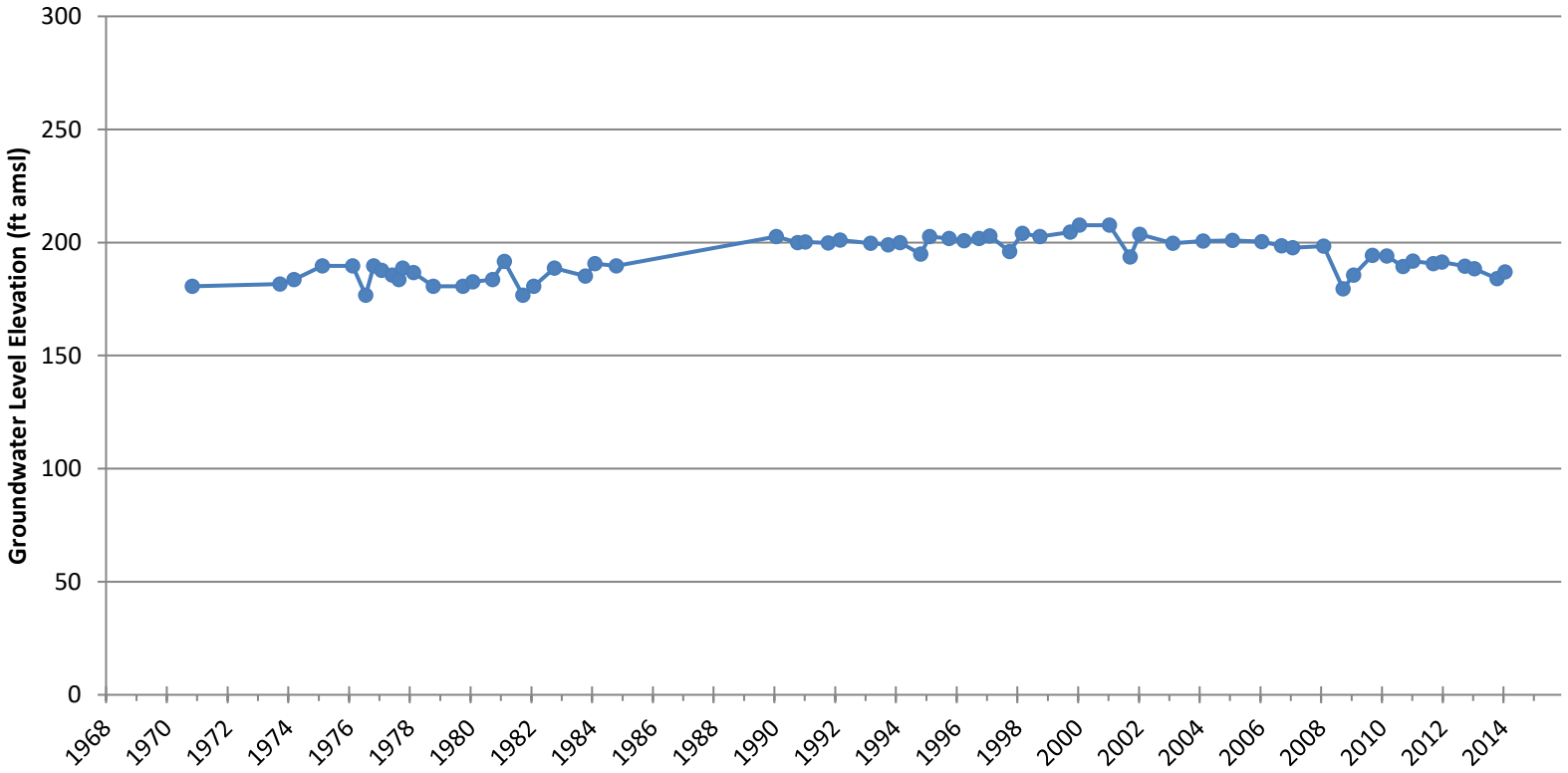
Groundwater Hydrographs - Shallow

22S/27E-10R01



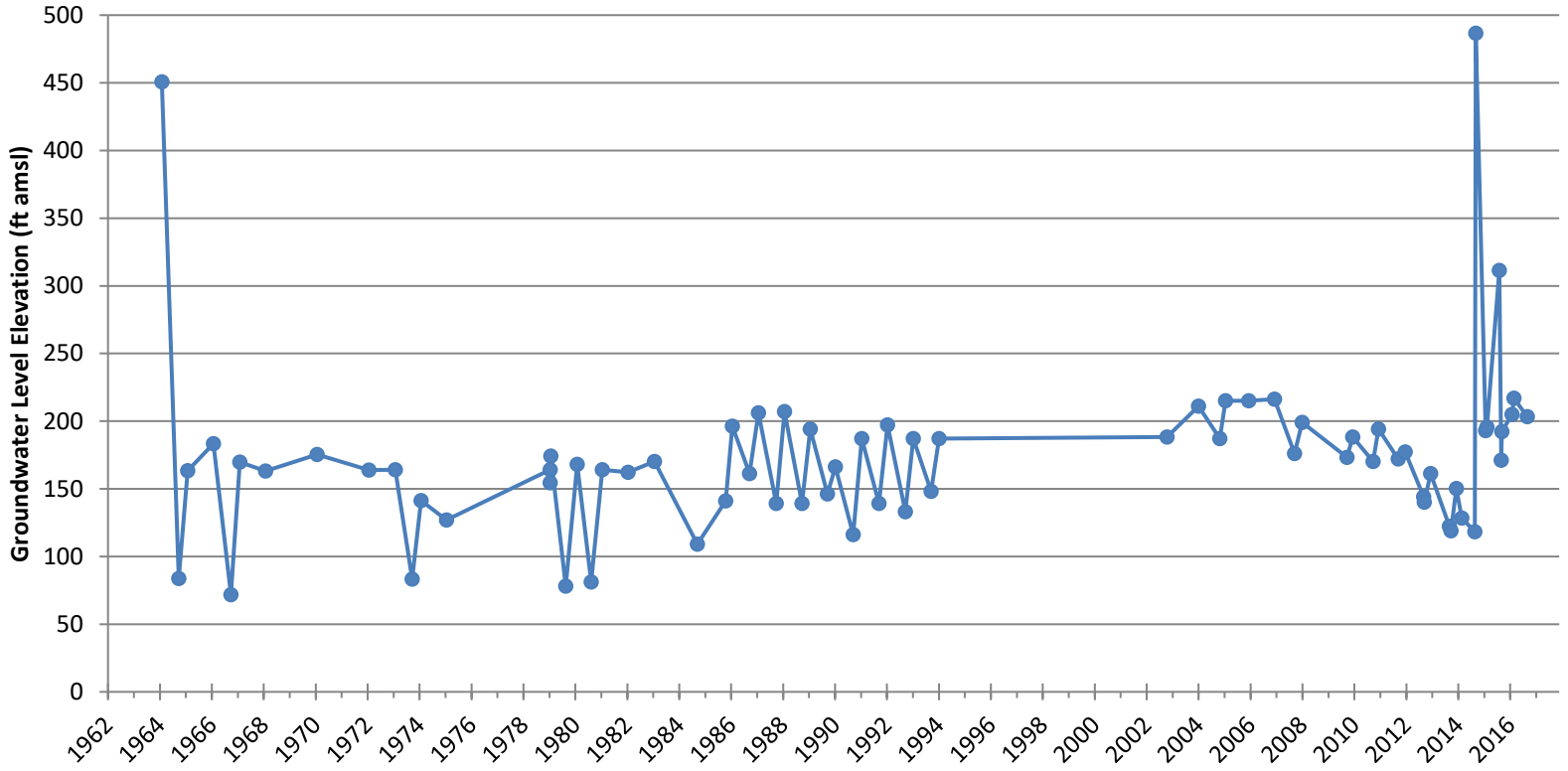
Groundwater Hydrographs - Shallow

24S/24E-25J01



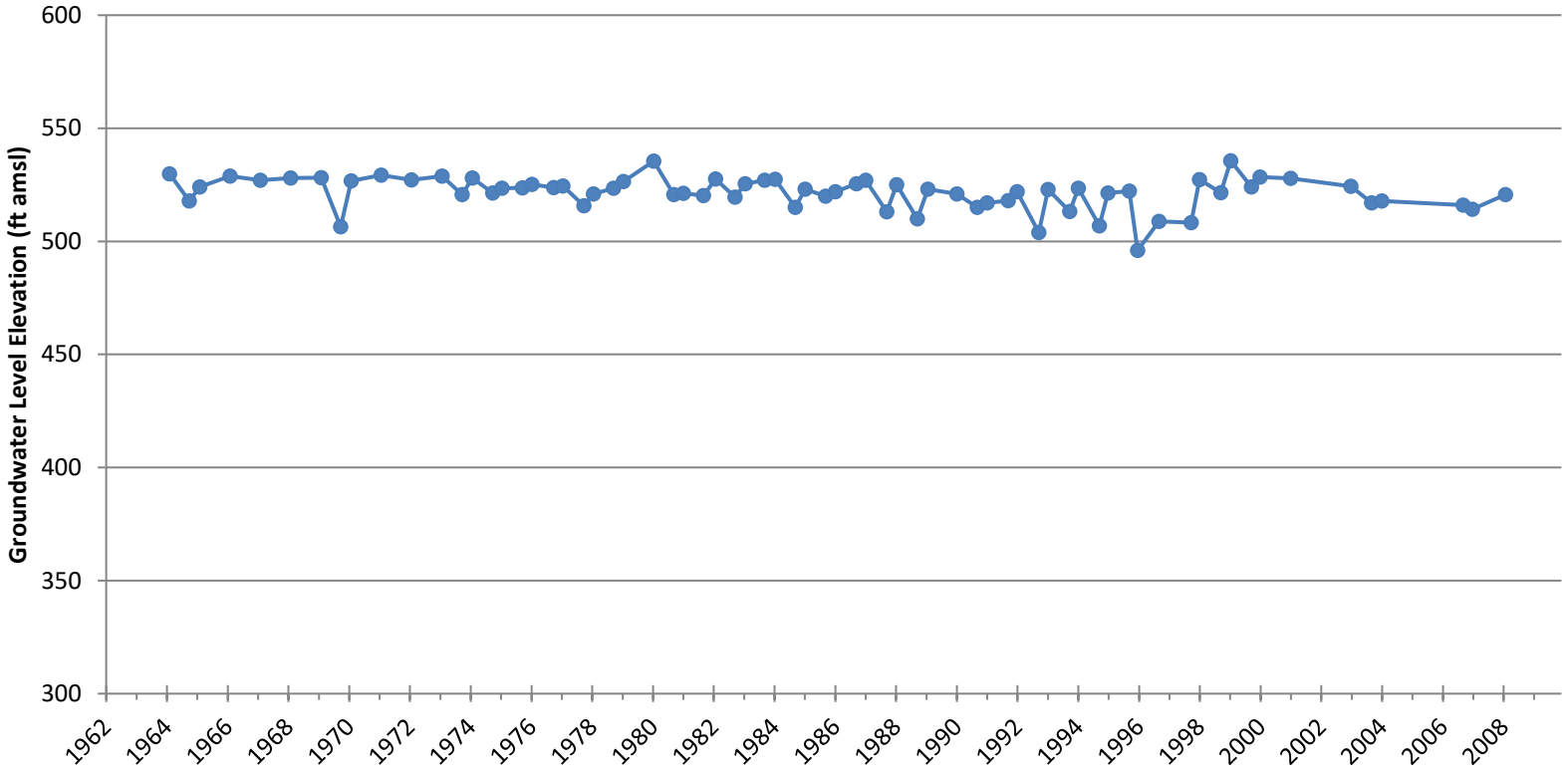
Groundwater Hydrographs - Shallow

24S/26E-01R01



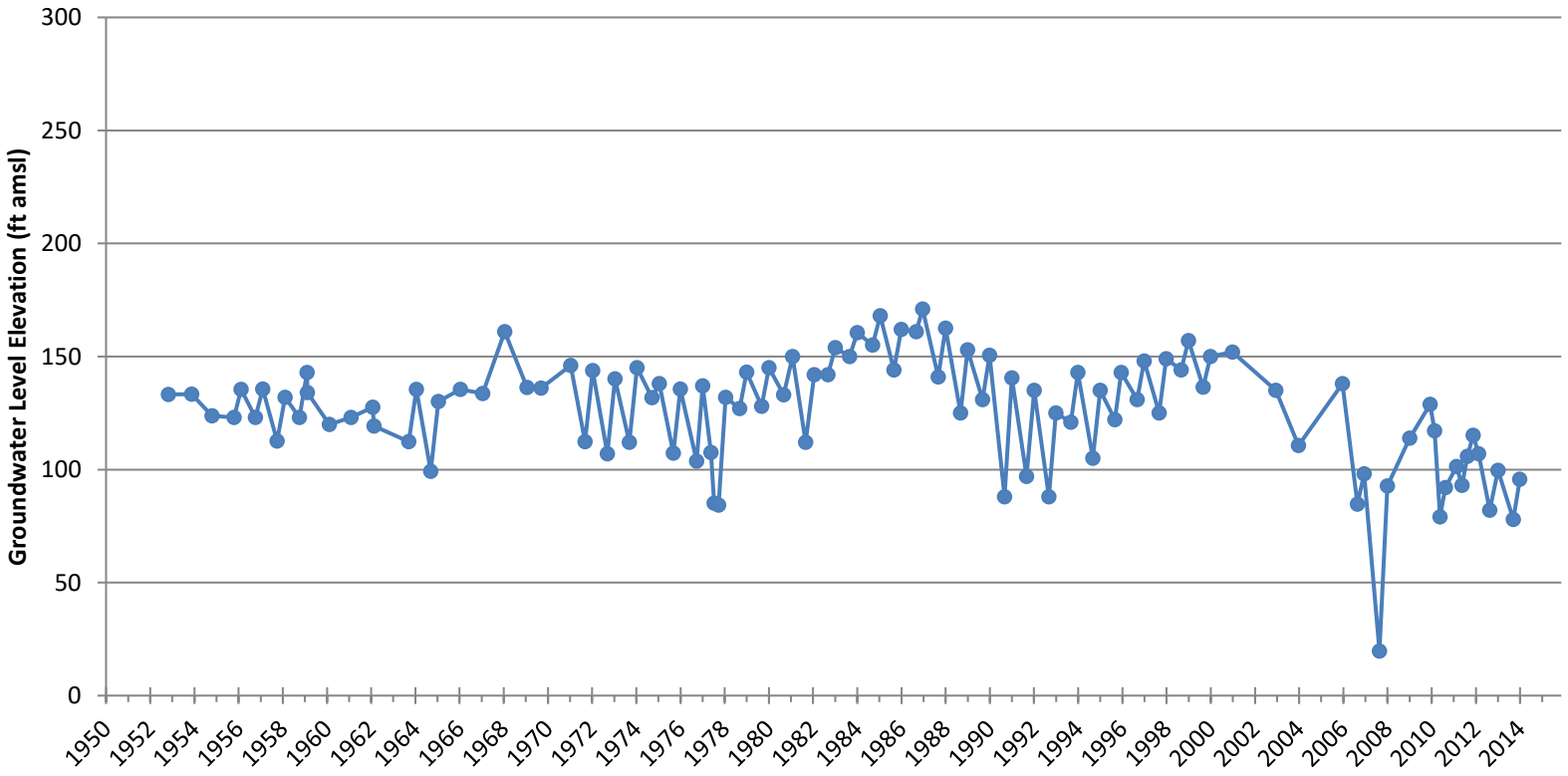
Groundwater Hydrographs - Shallow

22S/28E-03H01



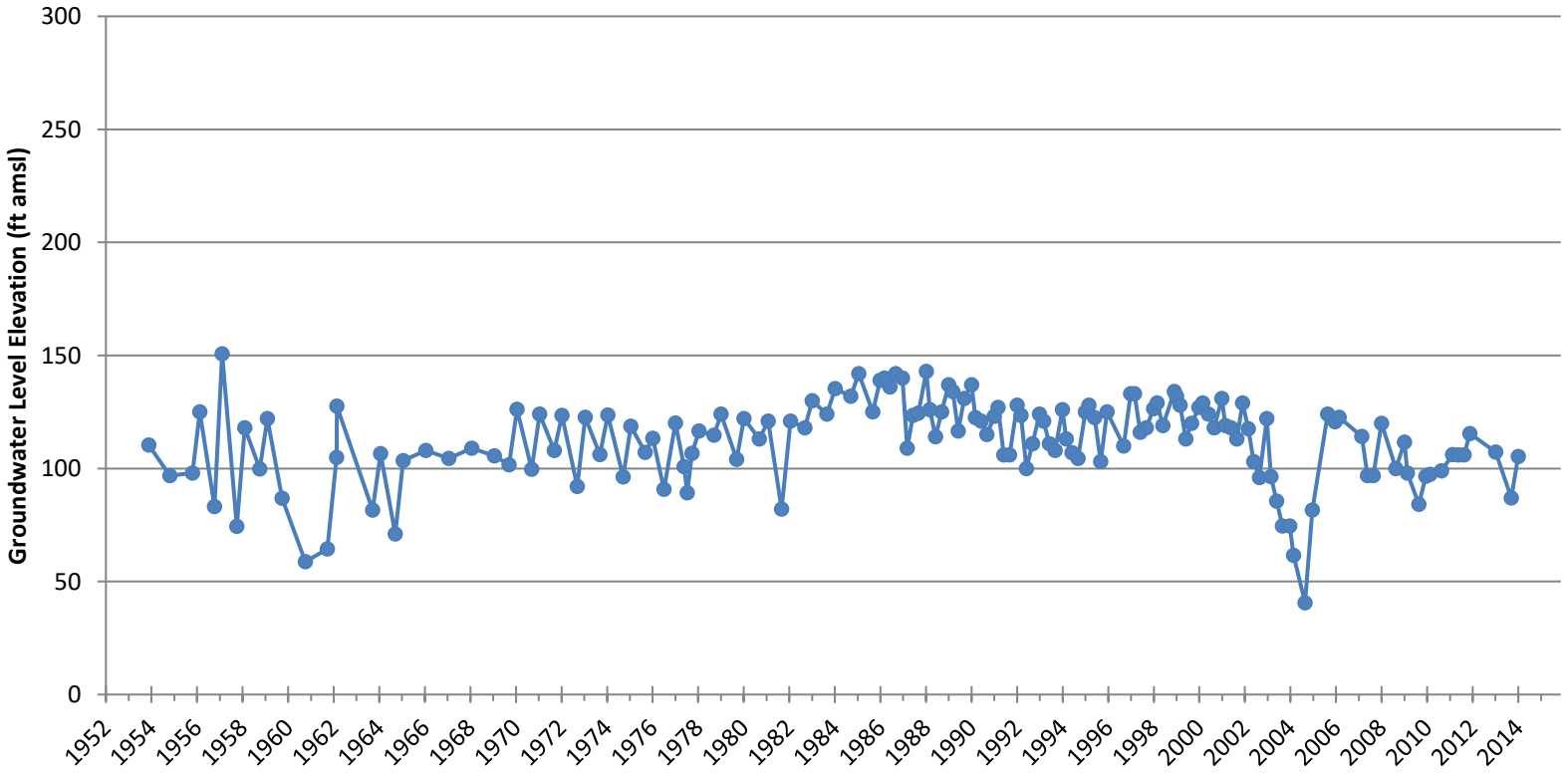
Groundwater Hydrographs - Shallow

23S/25E-19D01



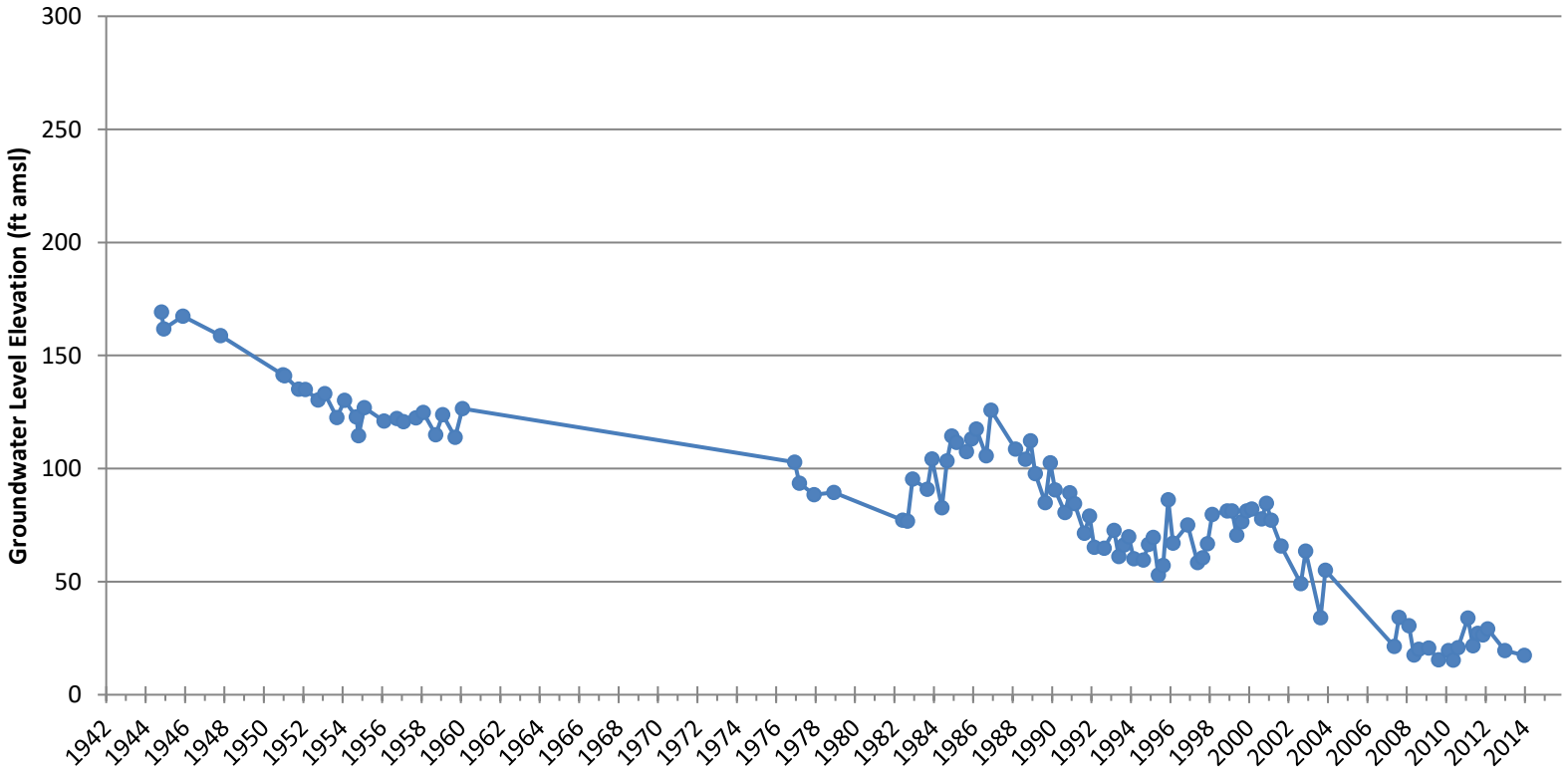
Groundwater Hydrographs - Shallow

23S/24E-28J02



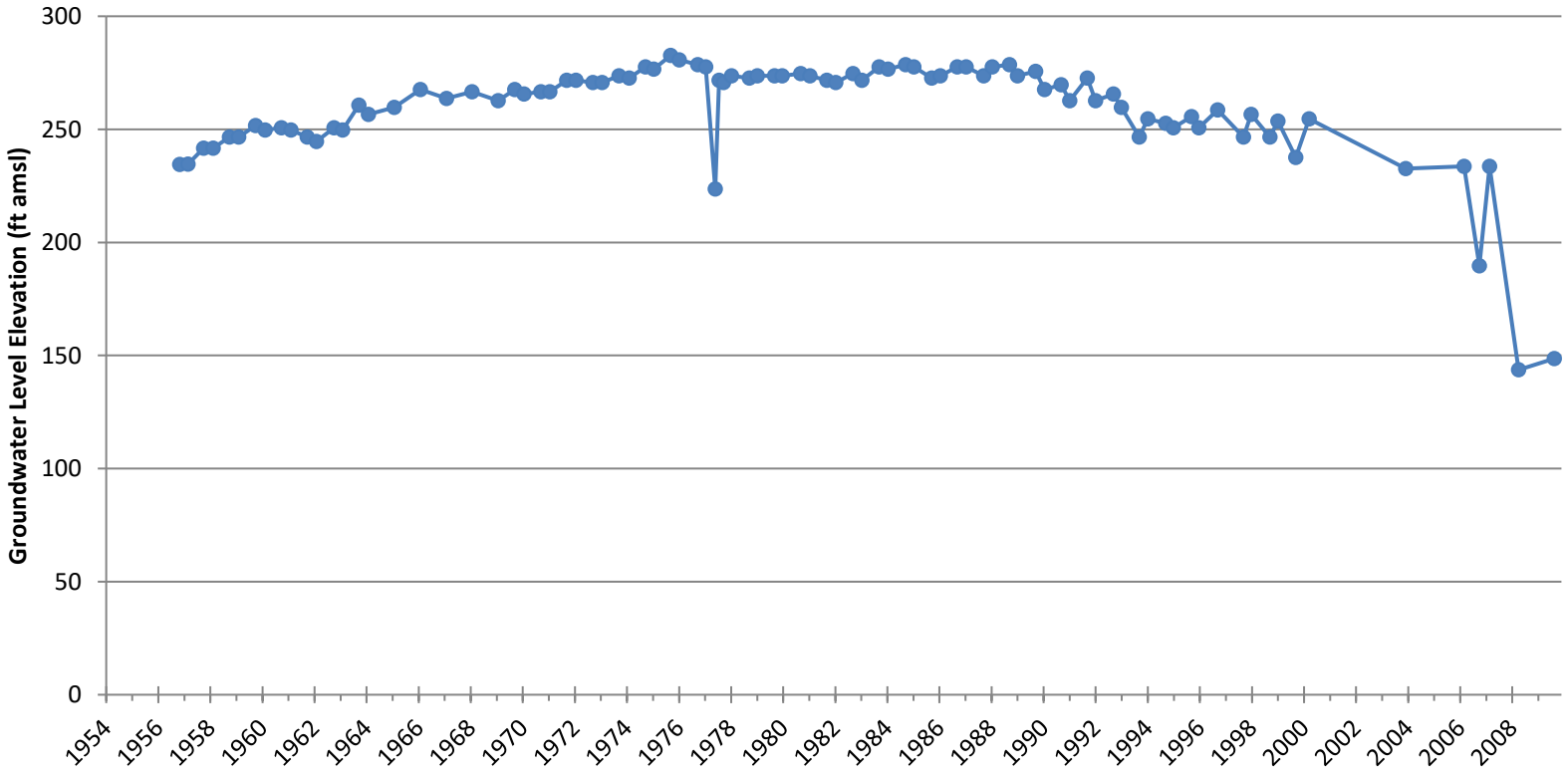
Groundwater Hydrographs - Shallow

22S/24E-20A01



Groundwater Hydrographs - Shallow

24S/25E-35P01



22/23-2121

BOLSEY PORTABLE [illegible]

ORIGINAL

LOG OF WELL

WHITTEN BROS. DRILLING COMPANY

"The Oldest [illegible]"

DELANO, CALIFORNIA

PHONE 2021

Well Driller [illegible]

Name: [illegible] Packing Company

Address: Angeola, California

Well Started: 7/20/50 Well finished: 7/31/50 Diameter: [illegible]"

Gauge: 5/16 Total Depth: Depth to Water:

Strata Formation	From Feet	To Feet	Perforated
Top Soil	0	6	[illegible] ft. 16" 5/16 O.D. perforated
Sand	6	15	
Clay	[illegible]	52	[illegible] ft. 5/16 16" O.D. plain
Sandy Clay	52	10[illegible]	
[illegible]	105	113	
Sandy Clay	113	[illegible]	
Hard Sand	202	[illegible]	
Sand	262	265	
Sandy Clay	265	420	
Sand	420	43[illegible]	
Sandy Clay	432	460	
Tough Clay	460	480	
Sandy Clay	480	510	
Hard Blue Slate	510	521	

Well G1

BOLSEY PORTABLE [illegible]

AWD02011

TRIPLICATE
Owner's Copy

Page 1 of 3

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY --- DO NOT FILL IN
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. #2-13W ~~E220 W-14~~ No. E054456
Date Work Began 6/19/2007, Ended 7/12/2007
Local Permit Agency TULARE COUNTY
Permit No. 07-0220 Permit Date 5/15/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD REVERSE FLUID ___

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0	25	SANDY BROWN CLAY
25	38	SANDY BLUE CLAY
38	50	SANDY BROWN CLAY
50	54	SAND
54	61	CLAY
61	66	SANDY CLAY
66	74	CLAY
74	79	SANDY CLAY
79	86	CLAY BROWN
86	91	BLUE CLAY
91	95	SAND
95	98	SANDY CLAY
98	111	CLAY
111	118	FINE SAND
118	126	SANDY CLAY
126	133	BLUE CLAY
133	142	SAND
142	158	BLUE CLAY
158	161	SAND
161	170	BLUE CLAY
170	177	SAND
177	196	BLUE CLAY
196	202	SANDY CLAY
202	205	BLUE CLAY
205	216	SANDY CLAY
216	228	BLUE CLAY
228	234	BLUE CLAY & SAND
234	243	CLAY
243	248	SAND
248	253	SANDY CLAY

TOTAL DEPTH OF BORING 490 (Feet)
TOTAL DEPTH OF COMPLETED WELL 490 (Feet)

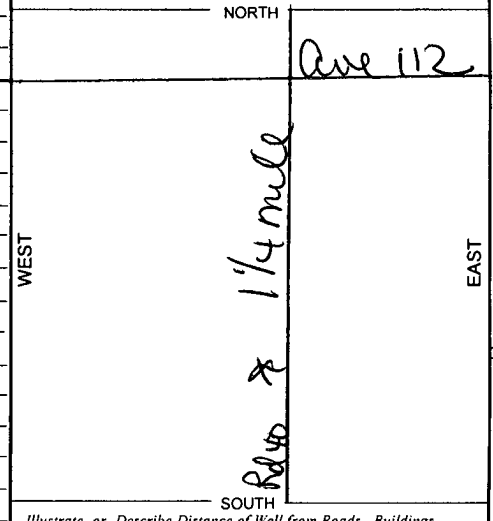
WELL OWNER

Name ANGIOLA WATER DIST.
Mailing Address 944 WHITLEY AVE. SUITE
CORCORAN CA 93212
CITY STATE ZIP

WELL LOCATION

Address RD 40 & AVE 112
City ANGIOLA CA
County TULARE
APN Book 291 Page 110 Parcel 05
Township 22 S Range 23 E Section 33
Latitude ___ DEG. ___ MIN. ___ SEC. ___ DEG. ___ MIN. ___ SEC.

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

ACTIVITY (✓)

✓ NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)
WATER SUPPLY
___ Domestic ___ Public
✓ Irrigation ___ Industrial
___ MONITORING
___ TEST WELL
___ CATHODIC PROTECTION
___ HEAT EXCHANGE
___ DIRECT PUSH
___ INJECTION
___ VAPOR EXTRACTION
___ SPARGING
___ REMEDIATION
___ OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___
ESTIMATED YIELD * ___ (GPM) & TEST TYPE ___
TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	240	30"	✓				STEEL	18"	5/16"	
240	480	30"		✓			STEEL	18"	5/16"	.050 SLO
480	490	30"	✓				STEEL	18"	5/16"	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			SIX SACK
0	490			✓	1/4 X 10

ATTACHMENTS (✓)

___ Geologic Log
✓ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analysis
___ Other ___
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP
Signed Carla Farrell 07/16/07 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD02863

TRIPLICATE
Owner's Copy

Page 2 of 3

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. E054456

DWR USE ONLY --- DO NOT FILL IN
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. #2-13W
Date Work Began 6/19/2007, Ended 7/12/2007
Local Permit Agency TULARE COUNTY
Permit No. 07-0220 Permit Date 5/15/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD REVERSE FLUID

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
253	265	SAND
265	269	CLAY
269	276	SAND
276	278	CLAY W/SAND
278	296	CLAY
296	303	SAND
303	309	CLAY
309	316	SAND
316	322	SANDY CLAY
322	325	SAND
325	337	CLAY
337	346	SAND
346	354	SANDY CLAY
354	367	CLAY
367	374	SAND
374	381	SANDY CLAY
381	384	CLAY
384	385	SANDY CLAY
385	391	SAND
391	404	CLAY
404	410	SAND
410	423	CLAY
423	434	CLAY W/LITTLE SAND
434	439	SAND
439	443	SANDY CLAY
443	454	SAND
454	456	CLAY
456	463	SAND
463	472	CLAY
472	480	SAND

TOTAL DEPTH OF BORING 490 (Feet)
TOTAL DEPTH OF COMPLETED WELL 490 (Feet)

WELL OWNER

Name ANGIOLA WATER DIST.
Mailing Address 944 WHITLEY AVE. SUITE
CORCORAN CA 93212
CITY STATE ZIP

WELL LOCATION

Address RD 40 & AVE 112
City ANGIOLA CA
County TULARE
APN Book 291 Page 110 Parcel 05
Township 22 S Range 23 E Section 33
Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)
✓ NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)
WATER SUPPLY
___ Domestic ___ Public
✓ Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___
ESTIMATED YIELD * ___ (GPM) & TEST TYPE ___
TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	240	30"	✓				STEEL	18"	5/16"	
240	480	30"		✓			STEEL	18"	5/16"	.050 SLO
480	490	30"	✓				STEEL	18"	5/16"	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			SIX SACK
0	490			✓	1/4 X 10

ATTACHMENTS (✓)

___ Geologic Log
✓ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analysis
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP

Signed ___ 07/16/07 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD02864

TRIPLICATE
Owner's Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. E054456

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. #2-13W
Date Work Began 6/19/2007, Ended 7/12/2007
Local Permit Agency TULARE COUNTY
Permit No. 07-0220 Permit Date 5/15/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD REVERSE FLUID

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
480	490	CLAY

TOTAL DEPTH OF BORING 490 (Feet)
TOTAL DEPTH OF COMPLETED WELL 490 (Feet)

WELL OWNER

Name ANGIOLA WATER DIST.
Mailing Address 944 WHITLEY AVE. SUITE
CORCORAN CA 93212
CITY STATE ZIP

WELL LOCATION

Address RD 40 & AVE 112
City ANGIOLA CA
County TULARE
APN Book 291 Page 110 Parcel 05
Township 22 S Range 23 E Section 33
Latitude ___ DEG. ___ MIN. ___ SEC. ___ DEG. ___ MIN. ___ SEC.

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

ACTIVITY (✓)

✓ NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)
WATER SUPPLY
___ Domestic ___ Public
✓ Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___
ESTIMATED YIELD * ___ (GPM) & TEST TYPE ___
TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	240	30"	✓				STEEL	18"	5/16"	
240	480	30"		✓			STEEL	18"	5/16"	.050 SLO
480	490	30"	✓				STEEL	18"	5/16"	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			SIX SACK
0	490			✓	1/4 X 10

ATTACHMENTS (✓)

___ Geologic Log
✓ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analysis
___ Other ___
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP
Signed ___ 07/16/07 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD02865

ORIGINAL
File with DWR 21/25-13

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 488425

Page ___ of ___
Owner's Well No. ___
Date Work Began 2/8/92 , Ended 2/12/92
Local Permit Agency Tulare County Health Dept.
Permit No. ___ Permit Date 1/9/92

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	12	Sandy clay.
12	15	Sand
15	88	Sandy clay.
88	112	Sand
112	124	Sandy clay
124	154	Sand
154	178	Gray clay.
178	190	Red & grey clay.
190	210	red Clay
210	222	Sand & pint Clay.
222	252	red Clay.
252	260	Sand.

OUTSIDE CORE CLAY AREA

TOTAL DEPTH OF BORING 256 (Feet)
TOTAL DEPTH OF COMPLETED WELL 257 (Feet)

WELL OWNER

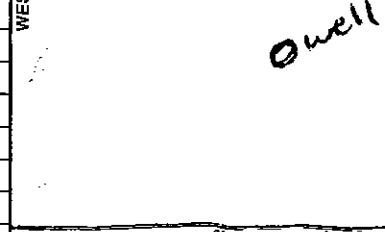
Name Midge Jones.
Mailing Address 15754 Ave 168
City Tulare CA State 93274 ZIP

WELL LOCATION

Address 15754 Ave 168
City Tulare
County Tulare
APN Book 232 Page 090 Parcel 16
or Township 21S Range 25E Section 13
or Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH
WEST
EAST
SOUTH



Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

___ NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING
WATER SUPPLY
___ Domestic
___ Public
✓ Irrigation
___ Industrial
___ "TEST WELL"
___ CATHODIC PROTECTION
___ OTHER (Specify)

DRILLING METHOD Cable tool FLUID Mud

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 112 (Ft.) & DATE MEASURED 3/12/92
ESTIMATED YIELD* 250 (GPM) & TEST TYPE air lift
TEST LENGTH 12 (Hrs.) TOTAL DRAWDOWN 116 (Ft.)
* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL/GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	20	20"	✓		✓		Steel	19½	.250	None
0	243	12"	✓				Steel	10	Loge.	
175	225	mills			perforations from 175-225					

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	20	✓			

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Lott Drilling Co.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 1593 Joyce Creek CITY Tulare STATE Ca. ZIP 93274

Signed Maxfield Lott
WELL DRILLER/AUTHORIZED REPRESENTATIVE

DATE SIGNED 3/12/92

C-57 LICENSE NUMBER 398407

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. 2

Date Work Began 2-5-99, Ended 2-13-99

Local Permit Agency TCEH

Permit No. 79084 Permit Date 2-2-99

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 519706

DWR USE ONLY — DO NOT FILL IN
21S/26E-10
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	3	Top Soil
3	15	(Fine) sand
15	19	(Coarse) sand
19	30	Green clay
30	35	(Coarse) sand (H2O)
35	41	(Fine) sand
41	57	Sand + Gravel (H2O)
57	105	Brown sandy clay
105	107	(Coarse) sand (H2O)
107	132	Brown clay + sand
132	140	Sandstone (Hard)
140	162	Red clay + sand
162	167	(Coarse) sand (H2O)
167	172	Sandstone (Hard)
172	176	(Coarse) sand (H2O)
176	205	Brown clay + sand

TOTAL DEPTH OF BORING 205 (Feet)
TOTAL DEPTH OF COMPLETED WELL 200 (Feet)

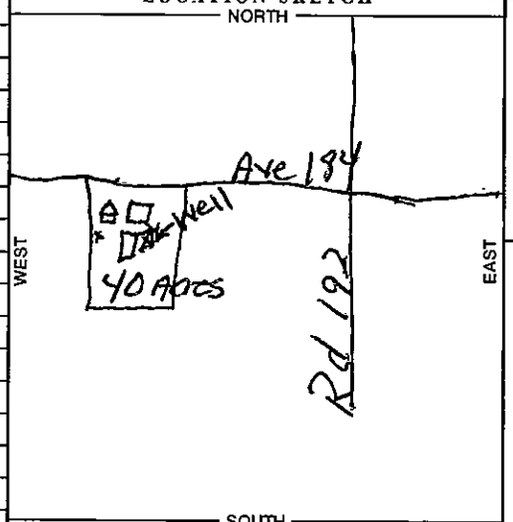
WELL OWNER

Name Neil Hefner
Mailing Address 18777 Ave 184
Strathmore Ca. 93267
CITY STATE ZIP

WELL LOCATION

Address
City SAME
County
APN Book 236 Page 030 Parcel 008
or Township 21S Range 26E Section 10
or Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

✓ NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S) (✓)

___ MONITORING
WATER SUPPLY
✓ Domestic
___ Public
___ Irrigation
___ Industrial
___ "TEST WELL"
___ CATHODIC PROTECTION
___ OTHER (Specify)

DRILLING METHOD Rotary FLUID H2O

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 24 (Ft.) & DATE MEASURED 2-13-99
ESTIMATED YIELD* 100 (GPM) & TEST TYPE Airlift
TEST LENGTH 1 (Hrs.) TOTAL DRAWDOWN NA (Ft.)
** May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	80	12 3/8	✓				PVC	6"	Sch 40	[redacted]
80	200	12 1/2		✓			PVC	6"	Sch 40	90 SX 3

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE / SIZE)
0	23	✓			
23	205			✓	3/8 minus

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Diego Drilling (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
1410 Tomah ADDRESS Porterville CITY Ca. STATE 93257 ZIP
Signed Lenny R Corder WELL DRILLER/AUTHORIZED REPRESENTATIVE
2-15-99 DATE SIGNED
662109 C-57 LICENSE NUMBER

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

21/26-22A1

9-063
(December 1949)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

No. 21/26-22A1
Domestic well

Other Nos. .....

WELL LOG

State Calif. County Tulare Subarea .....

Owner Bert Jackson

Location .....

.....

Drilled by Woods Bros Address Porterville

Date August 1949 Casing diam. 10" Land-surf. alt. .....

Source of data Owners log

(Enter type of well, perforations, yield, and drawdown at end of log)

Correlation	Material	Thickness (feet)	Depth (feet)
0-75	Soil		
75-83	Muddy sand		
83-96	Sand, Rock gravel		
96-110	Sandy clay		
110-125	Brown clay		
125-144	Muddy sand		
144-149	Sand		
149-160	Brown clay		
160-164	Muddy sand		
164-174	clay		
	3-170 10" pipe, 2 rope perf. 118' to 166'		

Record by R. L. Klausing Date 12/7/59 Sheet 1 of 1

U. S. GOVERNMENT PRINTING OFFICE 16—61687-1

ORIGINAL
File with DWR 21/26-34

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 489973

Page ___ of ___
Owner's Well No. ___
Date Work Began 4-29-92 Ended 4-30-92
Local Permit Agency Tulare co.
Permit No. 64027 Permit Date 4-27-92

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DEPTH TO FIRST WATER ___ (Ft) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	5	Top Soil
5	10	Clay
10	20	Sandy Clay
20	40	Gravely sand
40	60	Sandy Clay Gray
60	80	Sandy Clay Coarse
80	100	Cobbles
100	120	Gravely Clay
120	140	Sandy Clay(some cobbles)
140	160	Coarse sand
160	180	" "
180	200	" "

TOTAL DEPTH OF BORING 220 (Feet)
TOTAL DEPTH OF COMPLETED WELL 200 (Feet)

WELL OWNER

Name Brigitta Holter mann
Mailing Address 347 N. Newcomb
Porterville Ca.
CITY STATE ZIP

WELL LOCATION

Address 18975 Ave 152
City Porterville Ca.
County Tulare
APN Book 237 Page 010 Parcel 14
or Township 21S Range 26E Section 34
or Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH
RD 192
AVE 152
WEST
EAST
SOUTH
Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING
WATER SUPPLY
X Domestic
___ Public
___ Irrigation
___ Industrial
___ "TEST WELL"
___ CATHODIC PROTECTION
___ OTHER (Specify)

DRILLING METHOD Rotary FLUID Mud

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 89 (Ft.) & DATE MEASURED 4-30-92
ESTIMATED YIELD* 175 (GPM) & TEST TYPE Air Lift
TEST LENGTH 5 (Hrs.) TOTAL DRAWDOWN 97 (Ft.)
** May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	200	14								
0	80		X				P V C	6	Scd 40	
80	200			X			"	"	"	3/32

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	X			
50	200				3/8 Grav

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME L & L Well Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

2459 N. Oaks Sp. # 47 Tulare Ca. 93274
ADDRESS CITY STATE ZIP

Signed Ken Luisi
WELL DRILLER/AUTHORIZED REPRESENTATIVE

4-30-92 DATE SIGNED

620671 C-57 LICENSE NUMBER

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Page 2 of 2

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 47663

DWR USE ONLY — DO NOT FILL IN
21S/23E-30
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. Craig Silveira
Date Work Began 5/21/2007, Ended 5/22/2007
Local Permit Agency Tulare Co.
Permit No. 07-0116 Permit Date 3/28/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)
DRILLING METHOD CABLE FLUID WATER/POL

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
332	342	CLAY
342	356	SAND
356	362	CLAY
362	370	SAND
370	375	CLAY
375	395	SAND
395	406	CLAY
406	411	SAND
411	440	CLAY

TOTAL DEPTH OF BORING 440 (Feet)
TOTAL DEPTH OF COMPLETED WELL 420 (Feet)

WELL OWNER

Name Craig Silveria
Mailing Address 2143 N. Adams
Tulare CA 93274
CITY STATE ZIP

WELL LOCATION

Address 1/4 mile s. ave 160 1/2 mile w. rd 24
City Corcoran,Ca CA
County tulare
APN Book 200 Page 230 Parcel 02
Township 21 S Range 23 E Section 30
Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH
WEST EAST
SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

✓ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)
— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)

WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial
MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER ____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL ____ (Ft.) & DATE MEASURED ____
ESTIMATED YIELD * ____ (GPM) & TEST TYPE ____
TEST LENGTH ____ (Hrs.) TOTAL DRAWDOWN ____ (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	260	28	✓				STEEL	15.5	1/4	
260	420	28		✓			STEEL	15.5	5/16	.125

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	20	✓			
20	440				GRAVEL

ATTACHMENTS (✓)

— Geologic Log
— Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other ____
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Myers Well Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
12522 9th ave Hanford CA 93230
ADDRESS CITY STATE ZIP
Signed ____ 05/23/07 865822
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DUPLICATE
File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION CONTROL BOARD No.
(Insert appropriate number)

WATER WELL DRILLERS REPORT
(Sections 7076, 7077, 7078, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA

Do Not Fill In
No 105172
State Well No. 22/23-6
Other Well No.

(1) OWNER:
Name Andy Wheat
Address 143 W Prosperity ave
Tulare, Calif - 93274

(2) LOCATION OF WELL:
County Tulare Owner's number, if any—
R. F. D. or Street No. 1/4 mi. No. E. of Ave. 4th. So. side of Tule river, section 6. corcoran, ca.
22/23/6

(3) TYPE OF WORK (check):
New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary air ☒
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:
SINGLE ☒ DOUBLE ☐

From ft.	to ft.	Diam.	Gage or Wall
0	450	16x1/4	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"

Type and size of shoe or well ring
Describe joint

If gravel packed

Diameter of Bore	from ft.	to ft.
0	450	
	"	"
	"	"
	"	"
	"	"

Size of gravel:

(7) PERFORATIONS:
Type of perforator used stand. louver
Size of perforations in., length, by in.

From ft.	to ft.	Perf. per row	Rows per ft.
240	450		
"	"	" " "	" " "
"	"	" " "	" " "
"	"	" " "	" " "
"	"	" " "	" " "

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☐ Yes ☐ No To what depth ft.
Were any strata sealed against pollution? ☐ Yes ☐ No If yes, note depth of strata

(11) WELL LOG:
Total depth 462 ft. Depth of completed well 450 ft.
Formation: *Describe by color, character, size of material, and structure.*

ft. to	ft.	
0	6	top soil
6	13	sand fine & clay gray
13	27	sand med.
27	32	clay gray
32	45	sand med.
45	48	sand & blue clay
48	61	sand med.
61	96	clay blue
96	121	sand med.
121	128	clay blue
128	142	sand stone & fine & med. sand
142	179	clay blue
179	184	sand med.
184	189	clay blue
189	209	sand med.
209	225	clay blue
225	236	sand fine
236	238	clay blue
238	240	sand fine
240	252	sand med. & fine
252	260	blue clay & med. sand
260	269	sand med.
269	275	clay blue
275	279	sand med & coarse
279	289	clay blue
289	291	sand stone & med sand
291	297	clay blue
297	302	sand med. & fine
302	310	clay blue
310	324	sand med. & coarse
324	332	clay blue
332	345	sand med.
345	348	green clay
348	351	clay blue
351	359	clay blue
359	371	sand coarse & med.
371	379	clay blue
379	398	sand fine & med.
398	410	clay blue
410	419	fine & med. sand
419	432	clay green
432	434	sand fine

continued

UNCONFINED

Work started 6/24 19 77. Completed 6/30 19 77

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Dail Rhoads Well drilling
(Person, firm, or corporation) (Typed or printed)
Address 570 E. Gail ave. Tulare, Calif. 93274
Dail Rhoads
[SIGNED] Well Driller
License No. 303612 Dated 7/7, 19 77

DILLERS REPORT
7078, Water Code)
NCY OF CALIFORNIA

No 105157
State Well No.
Other Well No.

(11) WELL LOG: Andy Wheat
Total depth 462 ft. Depth of completed well 450 ft.
Formation: *Describe by color, character, size of material, and structure.*

ft. to	ft.	
434	437	sand med.
437	440	clay
440	445	sand & clay
445	462	clay blue. Bottom

Was electric log made of well? ☐ Yes ☐ No

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 Not Fill In

No. 30889

State Well No. _____

Other Well No. 22S-23E-18

(1) OWNER:

Name SALYER LAND Co

Address

Corcoran Calif

(2) LOCATION OF WELL:

County Kings Owner's number, if any Mitchell-I

Township, Range, and Section Sec 18 - R23E - T22S

Distance from cities, roads, railroads, etc. 60 W - Rd 24 and 1/4 mi N - Ave 120 Kings Co -

(3) TYPE OF WORK (check):

New Well [X] Deepening [ ] Reconditioning [ ] Destroying [ ]

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [X] Test Well [ ] Other [ ]

(5) EQUIPMENT:

Rotary [X]
Cable [ ]
Other [ ]

(6) CASING INSTALLED:

STEEL: OTHER:

SINGLE [ ] DOUBLE [ ]

From ft.	To ft.	Diam.	Gage or Wall
0	440	14OD	1/4

If gravel packed

Diameter of Bore	From ft.	To ft.
26	0	440

Size of shoe or well ring:

Size of gravel:

Describe joint

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
0	200	3	14	1/8

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes [X] No [ ] To what depth ft.

Were any strata sealed against pollution? Yes [ ] No [ ] If yes, note depth of strata

From 0 ft. to 20 ft.

From ft. to ft.

Method of sealing Cement

(9) WATER LEVELS:

Depth at which water was first found, if known ft.

Standing level before perforating, if known ft.

Standing level after perforating and developing ft. 54

(10) WELL TESTS:

Was pump test made? Yes [ ] No [ ] If yes, by whom?

Yield: 2000 gal./min. with 90 ft. drawdown after 4 hrs.

Temperature of water Was a chemical analysis made? Yes [ ] No [ ]

Was electric log made of well? Yes [ ] No [X] If yes, attach copy

(11) WELL LOG:

Total depth ft. Depth of completed well ft.

Formation: *Describe by color, character, size of material, and structure*

ft. to	ft.	
100	114	Sand
114	130	Clay
130	148	Sand
148	154	Clay
154	170	Sand
170	180	Clay
180	195	Sand
195	200	Clay
200	205	Sand
205	215	Clay
215	230	Sand
230	255	Clay
255	260	Sand
260	270	Clay
270	277	Sand
277	295	Clay
295	305	Sand
305	315	Clay
315	335	Sand
335	340	Clay
340	376	Sand
376	390	Clay
390	402	Sand
402	420	Clay
420	424	Sand
424	430	Clay
430	434	Sand
434	456	Clay
456		

UNCONFINED

CONFIDENTIAL
Water Code Sec. 15...

Work started 19 , Completed 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Jones Well Drilling
(Person, firm, or corporation) (Typed or printed)

Address PO Box 787 Corcoran Calif

[SIGNED] _____
(Well Driller)

License No. 144490 Dated Oct 20, 1970

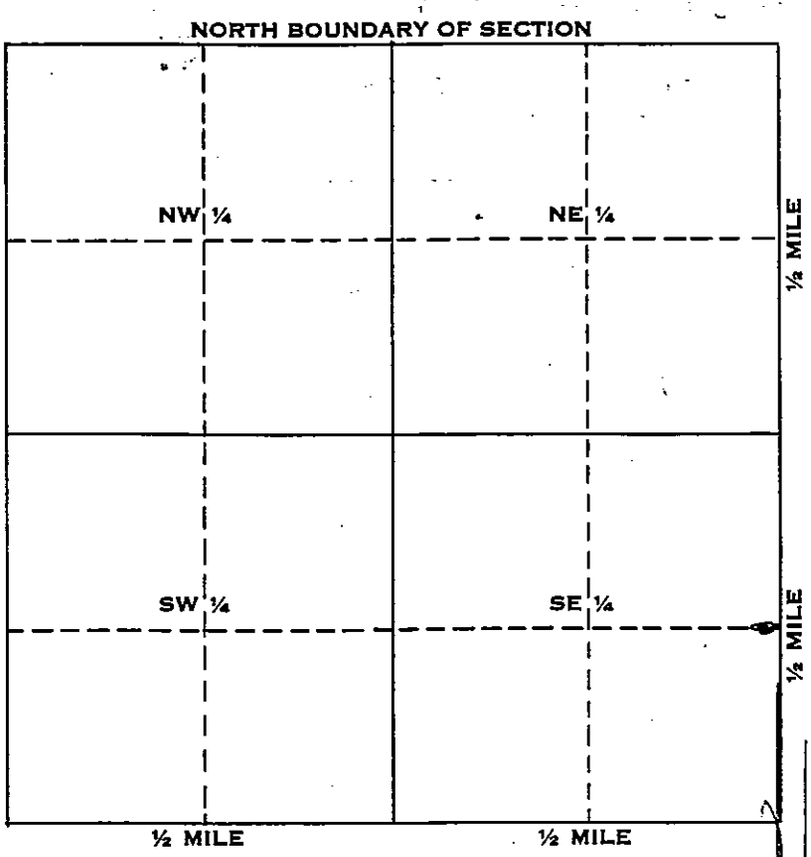
SKETCH LOCATION OF WELL ON REVERSE SIDE

DWR 188 (REV. 9-65)

No. N.I.

56391-950 10-65 50M TRIP ① △ OSP

WELL LOCATION SKETCH



Township 22 S N/S

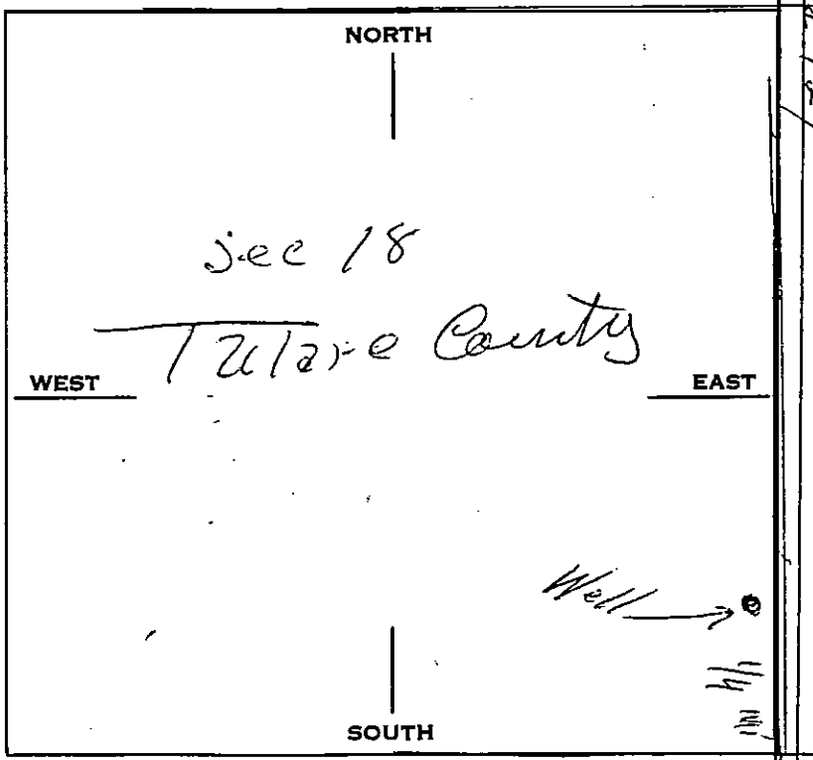
Range 23 E E/W

Section No. 18

Tulare Co

A. Location of well in sectionized areas.
Sketch roads, railroads, streams, or other features as necessary.

Ave 128



Ave 124

Ave 120

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

ORIGINAL
File with DWR

Page ___ of ___
Owner's Well No. ___
Date Work Began ___, Ended ___
Local Permit Agency ___
Permit No. ___ Permit Date ___

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 458715

DWR USE ONLY — DO NOT FILL IN
21/5/24E/19
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DEPTH TO FIRST WATER 88 (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	11	L.B.Clay
11	15	Fine Sand
15	25	L.B.Clay
25	31	Coarse Sand
31	68	L.B.Clay
68	72	Med Sand
72	88	L.B.Clay
88	96	Fine Sand(water)
96	102	Med Coarse Sand
102	108	L.B.CLAY
108	114	Med Sand
114	116	L.CLAY
116	124	Coarse Sand
124	142	L.B.Clay
142	145	Coarse Sand
145	165	Brown Clay
165	168	Coarse Sand
168	173	Brown Clay
173	185	Med Coarse Sand
185	190	Brown Clay
190	206	Med Coarse Sand
206	230	L.B.Clay
230	235	Blue Clay

TOTAL DEPTH OF BORING 235 (Feet)
TOTAL DEPTH OF COMPLETED WELL 235 (Feet)

WELL OWNER

Name G.J. te VELDE RANCH
Mailing Address 5850 Ave 160
Tipton,Ca. 93272
CITY STATE ZIP

WELL LOCATION

Address ½ mi. north of ave 160 on Rd.64,
City west side of rd.,south side of tule
County Tulare, Tipton
APN Book 200 Page 160 Parcel 016
or Township 21s Range 24e Section 19
or Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING
WATER SUPPLY
___ Domestic
___ Public
XX Irrigation
___ Industrial
___ "TEST WELL"
___ CATHODIC PROTECTION
___ OTHER (Specify)

DRILLING METHOD CABLE FLUID ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 86 (Ft.) & DATE MEASURED 12/29/95
ESTIMATED YIELD* 250 (GPM) & TEST TYPE Air
TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN 6 (Ft.)
* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	228	14	X				Cal.Weld	14	10	
							½"x4"x14" Steel Shoe			
163	208						Mills Perf.			¼"x3"

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	20	x			

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Roger L. Nation
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

26521 South Mooney Blvd. Visalia,Ca. 93277
ADDRESS CITY STATE ZIP

Signed Roger L. Nation
WELL DRILLER/AUTHORIZED REPRESENTATIVE

12/30/95
DATE SIGNED

259884
C-57 LICENSE NUMBER

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Notice of Intent No.
Local Permit No. or Date

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in
No. 165525
State Well No. 21/24-29
Other Well No.

(1) OWNER: Name ROBERT HARLEY
Address 7234 Ave 144
City TIPTON, CA. Zip

(2) LOCATION OF WELL (See instructions):
County TULARE Owner's Well Number
Well address if different from above
Township Range Section
Distance from cities, roads, railroads, fences, etc. ½ mi. south of Ave 160 on Rd. 80,75' west side of road north side of ditch bank.

WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☒
Industrial ☐
Test Well ☐
Stock ☐
Municipal ☐
Other ☐

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☒ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☐ No ☒ Size
Diameter of bore
Packed from to ft.

(7) CASING INSTALLED:
Steel ☒ Plastic ☐ Concrete ☐

(8) PERFORATIONS:
Type of perforation or size of screen Mills

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	184	14	10	132	175	½x3
½x4x14"	Steel Shoe					

(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 50 ft.
Standing level after well completion 44 ft.

(11) WELL TESTS:
Was well test made? Yes ☒ No ☐ If yes, by whom? N ation
Type of test Pump ☐ Bailer ☐ Air lift ☒ 50
Depth to water at start of test 44 ft. At end of test 50 ft
Discharge 250 gal/min after hours Water temperature
Chemical analysis made? Yes ☐ No ☒ If yes, by whom?
Was electric log made? Yes ☐ No ☒ If yes, attach copy to this report

(12) WELL LOG: Total depth 220 ft. Depth of completed well 220 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	25	L.B.Clay
25	32	Coarse Sand
32	46	L.B.Clay
46	53	Med Sand (water)
53	54	Soft Clay
54	62	Coarse Sand
62	95	L.B.Clay
95	98	Coarse Sand
98	100	Soft Clay
100	102	Coarse Sand
102	104	Soft Sandy Clay
104	107	Coarse Sand
107	133	L.B.Clay
133	157	Coarse Sand
157	161	L.B.Sandy Clay
161	173	Coarse Sand & Sandstones
173	190	L.B.Clay
190	194	Med Sand
194	220	L.B.Clay

Work started 10/19 1987 Completed 11/6 1987

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 Roger L. Nation (Well Driller)
NAME ROGER L. NATION (Person, firm, or corporation) (Typed or printed)
Address P.O. BOX 216
City IVANHOE, CA. Zip 93235
License No. 259884 Date of this report 11/6/87

CONFIDENTIAL
NOT FOR PUBLIC USE
WATER CODE SEC. 13752
UNCONFINED

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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 Not Fill In

No 30891

State Well No. _____

Other Well No. 22S/23E-15

(1) OWNER:

Name Boswell Co

Address 710 Bainum Ave

Corcoran

(2) LOCATION OF WELL:

County Tulare Owner's number, if any

Township, Range, and Section Sec. 15 - T22S - R23E

Distance from cities, roads, railroads, etc. 80ft N of Ave 120 and 1¼ miles E of Hiway 43

(3) TYPE OF WORK *(check)*:

New Well [X] Deepening [ ] Reconditioning [ ] Destroying [ ]

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE *(check)*:

Domestic [X] Industrial [ ] Municipal [ ]

Irrigation [ ] Test Well [ ] Other [ ]

(5) EQUIPMENT:

Rotary [X]

Cable [ ]

Other [ ]

(6) CASING INSTALLED:

STEEL: OTHER:

SINGLE [ ] DOUBLE [ ]

From ft.	To ft.	Diam.	Gage or Wall
0	420	14	10 1/4

If gravel packed

Diameter of Bore	From ft.	To ft.
26	0	420

Size of shoe or well ring:

Size of gravel:

Describe joint

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
240	420	4	12	1/8 1.05

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes [ ] No [ ] To what depth ft.

Were any strata sealed against pollution? Yes [X] No [ ] If yes, note depth of strata

From 0 ft. to 50 ft.

From ft. to ft.

Method of sealing Cemete

(9) WATER LEVELS:

Depth at which water was first found, if known ft.

Standing level before perforating, if known ft.

Standing level after perforating and developing ft.

(10) WELL TESTS:

Was pump test made? Yes [X] No [ ] If yes, by whom? Wilson

Yield: 1500 gal./min. with 38 ft. drawdown after 4 hrs.

Temperature of water Was a chemical analysis made? Yes [ ] No [ ]

Was electric log made of well? Yes [ ] No [X] If yes, attach copy

(11) WELL LOG:

Total depth ft. Depth of completed well ft.

Formation: *Describe by color, character, size of material, and structure*

ft. to	ft.	
160	171	Clay
171	179	Sand
179	184	Clay
184	200	Sand
200	212	Clay
212	217	Sand
217	226	Clay
226	234	Sand
234	239	Clay
239	245	Sand
245	261	Clay
261	266	Sand
266	277	Clay
277	298	Sand
298	314	Clay
314	324	Sand
324	328	Clay
328	340	Sand
340	348	Clay
348	352	Sand
352	355	Clay
355	368	Sand
368	398	Clay
398	407	Sand
407	412	Clay
412	424	Sand

UNCONFINED

CONFIDENTIAL
Water Code Sec. 13752

Work started 19 , Completed 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Terry's Well Drilling
(Person, firm, or corporation) *(Typed or printed)*

Address Box 787 Corcoran Cal

[SIGNED] _____
(Well Driller)

License No. 144990 Dated 10-20, 1970

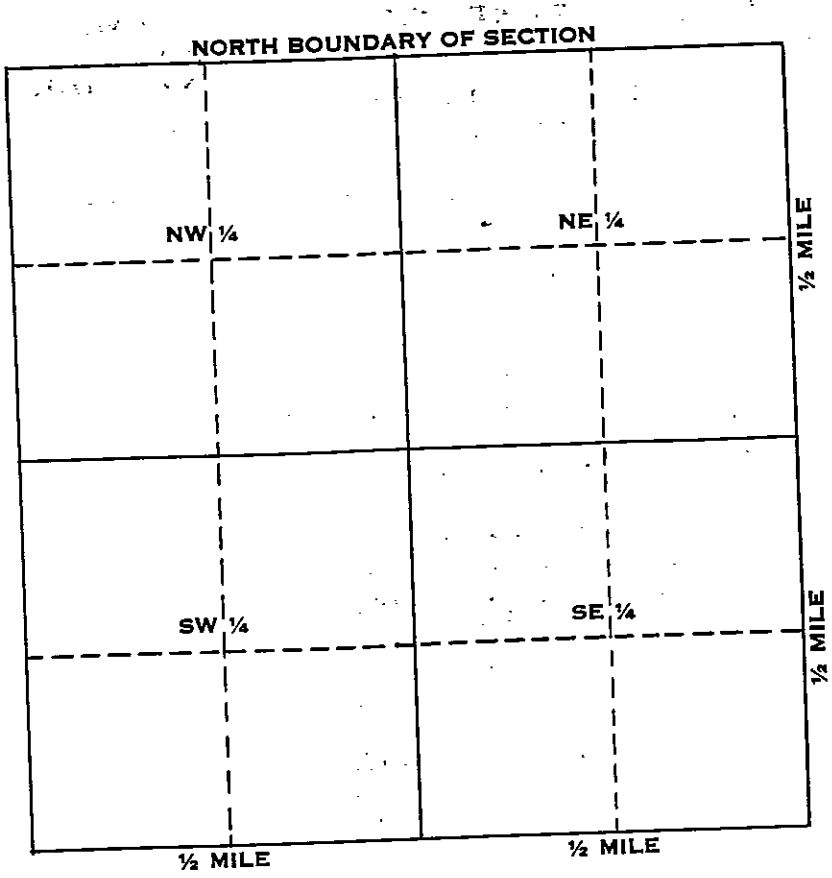
SKETCH LOCATION OF WELL ON REVERSE SIDE

DWR 188 (REV. 9-65)

No N.I.

56391-950 10-65 50M TRIP ① △ OSP

WELL LOCATION SKETCH

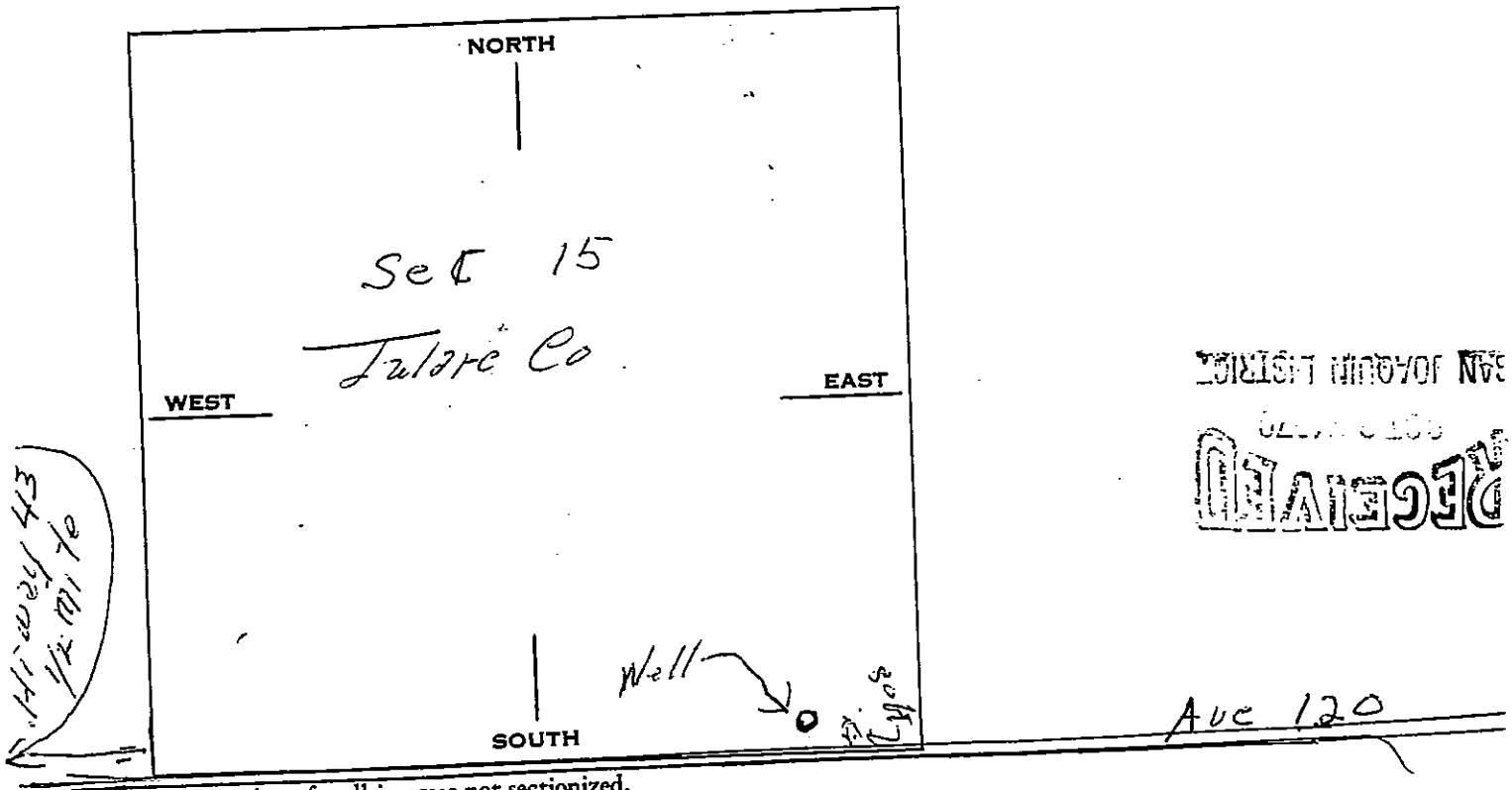


Township 22 S N/S

Range 23 E E/W

Section No. 15

A. Location of well in sectionized areas.
Sketch roads, railroads, streams, or other features as necessary.



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

22/24-6L

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 Not Fill In
No 23071

State Well No. _____
Other Well No. 22S/24E-6

(1) OWNER:

Name Los Feliz Ranch
Address RI. Box 321 Tipton Cal.

(2) LOCATION OF WELL:

County Tulare Owner's number, if any #6I
Township, Range, and Section S 6 — R 24 E — T 22 S
Distance from cities, roads, railroads, etc. 1/2 mile SW of AVE 149 & RD 72 Intersection

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐
If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
Cable ☐
Other ☐

(6) CASING INSTALLED:

STEEL: OTHER:
SINGLE ☐ DOUBLE ☐

From ft.	To ft.	Diam.	Gage or Wall
0	466	16	1/4

If gravel packed

Diameter of Bore	From ft.	To ft.
27	0	460

Size of shoe or well ring:
Size of gravel:
Describe joint

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
160	360	24	2	1/8

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☐ No ☐ To what depth ft.
Were any strata sealed against pollution? Yes ☐ No ☒ If yes, note depth of strata
From ft. to ft.
From ft. to ft.
Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known ft.
Standing level before perforating, if known ft.
Standing level after perforating and developing ft. 110

(10) WELL TESTS:

Was pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 1600 gal./min. with 50 ft. drawdown after hrs.
Temperature of water Was a chemical analysis made? Yes ☐ No ☐
Was electric log made of well? Yes ☐ No ☒ If yes, attach copy

(11) WELL LOG:

Total depth ft. Depth of completed well ft.
Formation: *Describe by color, character, size of material, and structure*

ft. to	ft.	Formation
100	111	Clay
111	123	Sand
123	135	Clay
135	141	Sand
141	144	Clay
144	148	Sand
148	170	Clay
170	177	Sand C.
177	188	Clay
188	194	Sand C.
194	219	Clay
219	228	Sand C.
228	233	Clay
233	238	Sand C.
238	251	Clay
251	254	Sand C.
254	256	Clay
256	258	Sand C.
258	267	Clay
267	275	Sand C.
275	284	Clay
284	293	Sand C.
293	304	Clay
304	308	Sand C.
308	310	Clay
310	316	Sand M. + F.
316	324	Clay
324	330	Sand M.
330	334	Clay
334	340	Sand F.
340	345	Clay
345	360	Sand C.

CONFIDENTIAL
Water Code Sec. 7080

Work started 19 , Completed 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Terry's Well Drilling
(Person, firm, or corporation) (Typed or printed)
Address 2125 Van Dorsten
Corcoran
[SIGNED] _____
(Well Driller)
License No. 140990 Dated Aug 31, 1960

SKETCH LOCATION OF WELL ON REVERSE SIDE

DWR 188 (REV. 9-65)

56391-950 10-65 80M TRIP ① △ OSP

EP-5

EP-5

PROPERTY LOCATED I MILE EAST OF PORTERVILLE

Date drilling completed Oct. I7th. I934

Depth of well I54 ft.

Depth of caseing I54 ft.

Water level 60 ft.

I45 ft. Of I4 gage I2 ineh single collar hard red ~~steel casing~~

I/2 X 8 shoe

Depth perforated 60 to I44 ft.

Penetration record

From	To	Type of formation
68	II9	Coarse
II9	I35	Clay. Rocky
I35	I52	Sand and Bolders
I52	I54	Black Rock

Driller; Hickman

9765-C

Well 21

MYERS BROTHERS, Inc.

Reverse Circulation Rotary Gravel Pack Well Log
8650 E. Lacey Blvd. — Hanford, California — Phone 582-9031

Dates:
Started: 11-16-67
Completed: 11-23-67
Driller Simmers
Well No. TH 21

CUSTOMER CITY OF PORTERVILLE CITY - 21

ADDRESS

WELL LOCATION CORNER OF HARRISON & HOCKETT STS. PORTERVILLE. TULARE Co.

Industrial ☐
Domestic ☐
Irrigation ☐
Other ☐

TYPE OF WORK

1. Hole Size 5 5/8"
2. Casing Dia.
3. Casing Thickness
4. Blank Casing
5. Perforation
6. Type of Perforation
7. Depth 280'
8. Gravel Tops
9. Gravel size

EXTRAS

1. Hole Size
2. Conductor Pipe Size
3. Depth
4. Cement Yds.

Remarks:

GOT WATER SAMPLES WITH SUBMERSIBLE PUMP. 138-143' & 179-184'
FILLED HOLE WITH CUTTINGS 280'-100'
PUT IN 15 BAGS BENTONITE
HOLE PLUG 100'-20'
PUMPED IN CEMENT & BENTONITE 20'-0'

STRATA INFORMATION

BROWN CLAY	Ft. 0	to Ft. 7
SAND	Ft. 7	to Ft. 16
ROCKS & GRAVEL	Ft. 16	to Ft. 31
SAND, STRINGERS BROWN CLAY	Ft. 31	to Ft. 44
BROWN CLAY	Ft. 44	to Ft. 72
RED CLAY	Ft. 72	to Ft. 101
BROWN CLAY	Ft. 101	to Ft. 130
COARSE SAND	Ft. 130	to Ft. 137
BROWN CLAY	Ft. 137	to Ft. 143
SAND	Ft. 143	to Ft. 150
BROWN CLAY	Ft. 150	to Ft. 152
SAND	Ft. 152	to Ft. 161
ROCKS	Ft. 161	to Ft. 165
SAND	Ft. 165	to Ft. 166
ROCKS & SAND	Ft. 166	to Ft. 174
SAND, SMALL STRINGERS BR. CLAY	Ft. 174	to Ft. 187
BROWN CLAY	Ft. 187	to Ft. 215
BR. CLAY & SAND STRINGERS	Ft. 215	to Ft. 217
SAND	Ft. 217	to Ft. 221
BROWN CLAY	Ft. 221	to Ft. 225
HARD BR. CLAY, ROCK STRINGERS	Ft. 225	to Ft. 257
HARD BLUE ROCK	Ft. 257	to Ft. 258
MED. HARD BROWN ROCK	Ft. 258	to Ft. 263
HARD GREEN ROCK	Ft. 263	to Ft. 280
	Ft.	to Ft.
	Ft.	to Ft.
	Ft.	to Ft.
	Ft.	to Ft.

FD

LSD Elev 471 23/27-3D1 ①

U.S. DEPARTMENT OF THE INTERIOR - BUREAU OF RECLAMATION - REGION II
WELL LOG

23/27-3D1

County Tulare | Owner U.S.B.R. | U.S.B.R. No. 23-27-3
Dist. | Use Exploration & Observation | Local No. Saucelito 5
Quad. Ducor | Driller O. Hopkins & D. W. Harding | Date 11-10-47
Location 23-27-3 (0.01-0.98S) 53' E and 28.5' S of NE Cor. of S.3, T.23, R.27

Surf. Elev. 471.0 | Groundwater Elev. | Date
Depth 172.5 | Groundwater Elev. | Date
Yield | Aquifers 280
Drawdown | Artesian head | Date
Casing 3" x 172.5' Perf. alternate % Sand-Gravel
10' Lengths from 26' to 172.5
Source of data Logan | Type drill Core Drill | Diam. hole 4"

Depth	Elev.	Thick	Description
0	471	20	Chocolate brown slightly calcareous silty loam with 15% scattered angular sand grains to 3mm, relatively impermeable.
2	469	4.5	Brown ill-sorted calcareous sandy clay loam; sand angular arkosic ranging to 1mm, streaks of white calcareous material Low permeability.
6.5	464.5	3.5	Reddish-brown ill-sorted subangular friable arkosic sandy loam; sand, a v. 0.1mm, max. 3mm; 20% red silt and clay matrix, low perm.
10	461	7.3	Reddish-brown loose to friable ill-sorted subangular arkosic coarse sand, av. 0.5mm, max. 5mm, with much silty material, grains slightly coated with red clay, perm.
17.3	453.5	1.7	Tan firm fairly well sorted, sitly clay loam, areas of white calcareous material, manganese stains, rel. imperm.
19	452.	6.8	Tan firm, ill-sorted, subangular arkosic coarse sand, av. 0.5mm, max. 4mm, 20% silt and clay matrix, rel. perm.
25.8	445.2	2.2	Tan friable fairly well sorted, silty loam with 5% sand, manganese stains, Top 6" red plastic impermeable clay, low permeability.
28	443	8.5	Tan friable to loose well sorted arkosic sandy silt; sand, av. 0.1 mm, max. 0.5mm, mafics 5%, prominent biotite flakes to 0.5mm, rel. perm.
36.5	434.5	15.0	Loose subangular poorly sorted arkosic coarse gravel; av. 3mm, max. 15mm, occasionally 50 mm; grading down to fine sand, some scattered lenses with micaceous silt and fine sand as matrix, predominently granitic materials also fine-grained basics, very perm.
51.5	419.5	3.	Loose subangular - subround cobbles; min 20mm, max. 40mm, composition as above, matrix of coarse sand largely lost in drilling, very perm.
54.5	416.5	3.5	Coarse gravel as 36.5 - 51.5
58	413	10	Tan firm fairly well sorted, silty loam, 10% sand ranging to max. of 0.1mm, clay filled tubular openings, mafics 5%, biotite prominent, low permeability.
68	403	6.2	Tan loose angular well sorted fine sand, av. 0.2 mm, max. 1mm, 10% silt, mafics 5%, perm.
74.2	396.8	8.3	Reddish-brown clay with many fractues fine tubular openeings and manganese stains, rel. imperm.

23/27-3D1

(2)

U.S.DEPARTMENT OF THE INTERIOR - BUREAU OF RECLAMATION - REGION II

WELL LOG

County Tulare | Owner | U.S.B.R. No. 23-27-3
Dist. | Use | Local No. Sausalito 5
Quad. Ducor | Driller | Date 11-10-47
Location 23-27-3 (0.01 0.995)

Surf.Elev. | Groundwater Elev. | Date
Depth | Groundwater Elev. | Date
Yield | Aquifers
Drawdown | Artesian head | Date
Casing | % Sand-Gravel

Source of data | Type drill | Diam. hole

Depth	Elev.	Thick	Description
82.5	388.5	5.	Tan firm fairly well sorted micaceous sandy silt; sand 20% ranging to 1mm, low permeability.
87.5	383.5	8.5	Tan firm fairly well sorted silty loam; 10% sand chiefly quartz ranging to 0.5mm, many fine tubular openings; manganese stains, rel. imperm.
96	375	3	Tan firm clay with 30% scattered sand & pebbles arkosic ranging to 7mm, tubular openings and manganese stains, rel. imperm.
99	372	3	Tan firm poorly sorted sandy silt; sand angular arkosic, ranging to max. of 2mm, tubular openings, manganese stains, low perm.
102	369	8.5	Tan firm silty loam, as 85.7 - 96.
110.5	360.5	8	Tan loose fairly well sorted, subangular arkosic coarse sand, av. 0.5mm, max. 3mm, pebble 15 mm, 15% silt & clay decomposition product matrix, relatively permeable.
118.5	352.5	4.0	Reddish-brown firm clay with 10% angular arosic sand grains to 1mm, slickensides, manganese stains, rel. imperm.
122.5	348.5	9.5	Tan firm sitly loam, as 87.5 - 96 with thin streaks, of white clay, rel. imperm.
132	339	7.5	Tan firm clay loam; 30% sand subangular arkosic, to max. of 2mm, Tubular openings, manganese stains, rel. imperm.
139.5	331.5	1.5	Brown friable ill-sorted arkosic sandy loam; sand ave. 0.2mm, max. 3mm, many tubular openings, low perm.
141	330	4	Reddish-brown clay as 118.5 - 122.5
145	326	3	Tan silty loam as 87.5 - 96
148	323	5	Tan firm clay with many fractures abundant manganese stains, many thin seams of white clay, 10% scattered angular sand grains to 0.5mm, relatively impermeable.
~~153~~	~~318~~	~~5~~	~~illegible~~
153	318	3.3	Tan silty loam as 87.5 - 96
156.3	314.7	1.7	Tan friable angular poorly sorted arkosic medium sandy loam; 30% silt and clay matrix relatively permeable.
158	313	3	Tan firm silty loam; 5% sand grains, chiefly quartz to 0.2 mm, small openings, manganese stains, low perm.

23/27-3D1

(3)

U.S.DEPARTMENT OF THE INTERIOR - BUREAU OF RECLAMATION - REGION II
WELL LOG

County Tulare | Owner | U.S.B.R. No. 23-27-3
Dist. | Use | Local No. Saucelito 5
Quad. Ducor | Driller | Date 11-10-47
Location 23-27-3 (0.01-0.995) 53' E & 22.5' S of NW Cor. S 3, T 23 R 27

Surf.Elev. | Groundwater Elev. | Date
Depth | Groundwater Elev. | Date
Yield | Aquifers
Drawdown | Artesian head | Date
Casing | % Sand-Gravel

Source of data | Type drill | Diam. hole

Depth	Elev.	Thick	Description
161	310	4.2	Reddish-brown firm clay with many fractures & manganese stains, 10% angular sand grains to 1mm; white feldspars very prominent, relatively impermeable.
165.2	305.8	2.7	Tan silty loam as 87.5 - 96 but with 20% sand
167.9	303.1	4.6	Tan loose subang. fairly well sorted arkosic coarse sand, av. 0.6mm, max. 3mm; 15% white silty clay, decomposition product matrix, permeable.
172.5	298.5		Bottom

Note; Above core examined while very dry. As materials were found in place, indurations were much different than here noted.

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

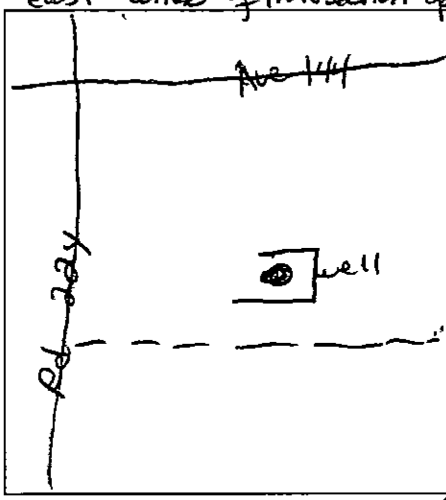
No. 258421

State Well No. 22/27-4
Other Well No. ______

Notice of Intent No. ______
Local Permit No. or Date ______

(1) OWNER: Name Jess Blasingame
Address 22156 Ave 152
City Porterville, Ca. ZIP 93257

(2) LOCATION OF WELL (See instructions):
County Tulare Owner's Well Number ______
Well address if different from above 22511 Ave 144
Township 22S Range 27E Section 4
Distance from cities, roads, railroads, fences, etc. approximately 2 miles southwest of Porterville to intersection of Ave 144 + Rd 224 in southeast corner of intersection approx 250 feet S.E. of [illegible]



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☒
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☐
(Describe)

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☒ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☐ No ☒ Size ______
Diameter of bore ______
Packed from ______ to ______ ft.

(7) CASING INSTALLED:
Steel ☒ Plastic ☐ Concrete ☐

(8) PERFORATIONS:
Type of perforation or size of screen ______

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	148	8	12	104	148	1/8x4

(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 32 ft.
Standing level after well completion 32 ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☐ If yes, by whom? Lott Drilling.
Type of test Pump ☐ Bailer ☐ Air lift ☒
Depth to water at start of test 32 ft. At end of test 60 ft.
Discharge 100 gal/min after ______ hours Water temperature ______
Chemical analysis made? Yes ☐ No ☒ If yes, by whom? ______
Was electric log made Yes ☐ No ☒ If yes, attach copy to this report

(12) WELL LOG: Total depth 156 ft. Completed depth 156 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	2	hard clay.
2	3	hardpan
3	32	sandy clay.
32	44	sand
44	84	rock, gravel, cobbles.
84	104	sandy clay.
104	140	joint clay.
140	150	hard clay.
150	156	gravel + joint clay.

Work started 3-24 1988 Completed 3-31 1988

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 Marlow Lott
(Well Driller)

NAME Lott Drilling Co.
(Person, firm, or corporation) (Typed or printed)
Address 1593 Joyce Circle
City Tulare Ca. ZIP 93274
License No. 398407 Date of this report 4-8-88

CONFIDENTIAL

NOT FOR PUBLIC USE
WATER CODE SEC. 13752

OUTSIDE CORC. CLAY AREA

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DWR 188 (REV. 12-86) 86 96355

22/26-17A1

22/26-17A1

Population well @

245 Hale

90 ft. 16". Casing

155 ft. 12" "

245

Set 13-50 (190')

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e064534

Page 1 of 3

Owner's Well Number 1

Date Work Began 11/05/2007 Date Work Ended 11/7/2007

Local Permit Agency TULARE COUNTY EHD

Permit Number 07-0532 Permit Date 11/1/07

DWR Use Only – Do Not Fill In

21S/27E-36

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation ◉ Vertical ○ Horizontal ○ Angle Specify

Drilling Method MUD ROTARY Drilling Fluid BENTONITE

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
0	20	SAND, FINE TO COARSE GRAINS
20	50	COBBLE
50	55	SAND, FINE TO COARSE GRAINS
55	70	COBBLE
70	75	SAND, FINE TO COARSE GRAINS
75	80	COBBLE
80	100	SAND, FINE TO COARSE GRAINS
100	115	COBBLE
115	138	BROWN SILTY CLAY, FINE TO COARSE
		GRAINS

Total Depth of Boring 138 Feet

Total Depth of Completed Well 138 Feet

Well Owner

Name VINCENT JUROVICH

Mailing Address PO BOX 408

City PORTERVILLE State CA Zip 93258

Well Location

Address 474 S. MAIN

City PORTERVILLE County Tulare

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

Datum ___ Decimal Lat. ___ Decimal Long. ___

APN Book 261 Page 070 Parcel 003

Township 21S Range 27E Section 36

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

see attached

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

◉ New Well
○ Modification/Repair
○ Deepen
○ Other
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

◉ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☑ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
○ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well

Depth to first water 55 (Feet below surface)

Depth to Static Water Level 29 (Feet) Date Measured 11/9/07

Estimated Yield * 24.7 (GPM) Test Type Sub. pump

Test Length 24.0 (Hours) Total Drawdown 110 (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	58	12.25	BLANK	PVC	SDR17			
58	138	12.25	SCREEN	PVC	SDR17		MILLED SLO	0.032

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	50	CEMENT	GROUT
50	138	GRAVEL	3/8" ROCK

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☑ Other LOCATION MAP

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name CONSOLIDATED TESTING LABS., INC.

Person, Firm or Corporation

603 E. WORTH AVENUE Address PORTERVILLE City CA State 93257 Zip

Signed C-57 Licensed Water Well Contractor 11-19-07 Date Signed 544541 C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL

File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

No. 085866

State Well No. 21/27-24

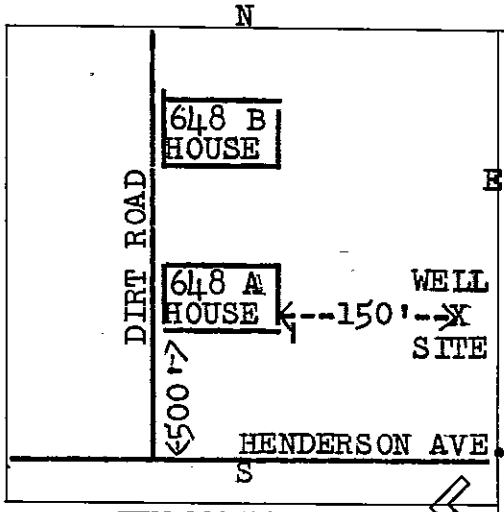
Other Well No.

Notice of Intent No.

Local Permit No. or Date

(1) OWNER: Name DENNIS & TYNES
Address 1181 W. PUTNUM
City PORTERVILLE, CALIF. Zip 93257

(2) LOCATION OF WELL (See instructions):
County TULARE Owner's Well Number
Well address if different from above
Township Range Section
Distance from cities, roads, railroads, fences, etc. 150 FT. EAST OF 648 A EAST HENDERSON, PORTERVILLE



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☒
Industrial ☐
Test Well ☐
Stock ☐
Municipal ☐
Other ☐

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☒ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☐ No ☒ Size
Diameter of bore
Packed from to ft.

(7) CASING INSTALLED:
Steel ☒ Plastic ☐ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
0	152	12	10

(8) PERFORATIONS: FACTORY
Type of perforation or size of screen

From ft.	To ft.	Slot size
124	148	1"X¼"

(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 PUMP CO. PROVIDES

(10) WATER LEVELS:
Depth of first water, if known 76 ft.
Standing level after well completion 56 ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☒ If yes, by whom?
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test ft. At end of test ft.
Discharge gal/min after hours Water temperature
Chemical analysis made? Yes ☐ No ☒ If yes, by whom?
Was electric log made? Yes ☐ No ☒ If yes, attach copy to this report

(12) WELL LOG: Total depth 152 ft. Depth of completed well 152 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	3	TOP SOIL
3	74	RED CLAY
74	76	GREY CLAY
76	82	GREY ROCK
82	108	GREY CLAY
108	112	GREY ROCK
112	118	GREY CLAY
118	128	GREY ROCK
128	142	GREY CLAY
142	152	1/8" to ½ ROCK

OUTSIDE CORC. CLAY AREA

Work started 6-8 19 79 Completed 6-14 19 79

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 Arthur Cruikshank (Well Driller) RIG #1
NAME STAR WELL DRILLING (Person, firm, or corporation) (Typed or printed)
Address 14583 AVE. 384 RT.#1
City VISALIA, CALIF. Zip 93277
License No. #373338 Date of this report 6-19-79

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

GROUND WATER

23/25-16N4

DUPLICATE
File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION CONTROL BOARD No.____
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

1889

LOCATION NOT CHECKED
Do Not Fill In
No 55087
State Well No. 23S/25E-16N4
Other Well No.

(1) OWNER: U. S. Geological Survey
Name ~~Geological Survey~~ Groundwater Branch
Address 2520 Marconi Ave.
Sacramento 21, Calif.

(2) LOCATION OF WELL:
County Tulare Owner's number, if any--
R. F. D. or Street No.
650' West of Southern Pacific R.R.
near 99 Hwy
470' North of Avenue 72

(3) TYPE OF WORK (*check*):
New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (*check*):
Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [X] Other [ ]

(5) EQUIPMENT:
Rotary [X]
Cable [ ]
Dug Well [ ]

(6) CASING INSTALLED:
SINGLE [X] DOUBLE [ ]
From 0 ft. to 240 ft. 8" Diam. # 12 Gage or Wall

If gravel packed

Diameter of Bore	from ft.	to ft.
14"	0	250

Type and size of shoe or well ring None
Size of gravel: Rejects
Describe joint Belled End, Welded

(7) PERFORATIONS:
Type of perforator used Milled slots
Size of perforations 2- 1/2 in., length, by 1/8 in.

From ft.	to ft.	Perf. per row	Rows per ft.
200	240	8	2

(8) CONSTRUCTION:
Was a surface sanitary seal provided? [ ] Yes [X] No To what depth ft.
Were any strata sealed against pollution? [ ] Yes [X] No If yes, note depth of strata

From ft.	to ft.

Method of Sealing

(9) WATER LEVELS:
Depth at which water was first found 115 ft.
Standing level before perforating ft.
Standing level after perforating 115 ft.

(10) WELL TESTS: (Air lift)
Was a pump test made? [X] Yes [ ] No If yes, by whom? Belknap
Yield: 60 gal./min. with 15 ft. draw down after 1 hrs.
Temperature of water Was a chemical analysis made? [ ] Yes [X] No
Was electric log made of well? [ ] Yes [X] No

(11) WELL LOG: Page 1 of 2
Total depth 250 ft. Depth of completed well Est. 238 ft.
Formation: *Describe by color, character, size of material, and structure.*

ft.	to ft.	
0	6	Sand
6	16	Sandy Clay
16	33	Coarse Sand
33	40	Brown Sandy Clay
40	43	Brown Hardpan
43	57	Brown Clay
57	58	Medium Coarse Sand
58	59	Clay
59	64	Medium Coarse Sand
64	72	Hard Clay
72	75	Coarse Sand
75	80	Brown Sandy Clay
80	84	Coarse Sand
84	89	Brown Clay
89	90	Coarse Sand
90	95	Brown Clay
95	103	Coarse Sand
103	107	Brown Clay
107	110	Coarse Sand
110	111	Brown Clay
111	115	Coarse Sand
115	122	Sandy Brown Clay
122	125	Coarse Sand
125	126	Brown Clay
126	129	Coarse Sand
129	137	Brown Clay
137	146	Coarse Sand
146	153	Sandy Brown Clay
153	157	Coarse Sand
157	158	Borw Clay
158	164	Coarse Sand
164	168	Brown Clay
168	170	Coarse Sand
170	178	Brown Sandy Clay
178	180	Coarse Sand
180	181	Sandy Brown Clay
181	183	Coarse Sand
183	190	Sandy Brown Clay
190	201	Coarse Sand
201	203	Sandy Brown Clay
203	211	Coarse Sand
211	218	Brown Clay
218	219	Coarse Sand (OVER)

Work started 6-19-59 19 Completed 6-23-59 19

WELL DRILLER'S STATEMENT: cont'-
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bill Belknap BH
(Person, firm, or corporation) (Typed or printed)
Address 9274 So. Buttonwillow Ave.,
Reedley, Calif.

[SIGNED] Bill Belknap
Well Driller
License No. 106833 Dated 6-26-59, 19

87028 6-57 50M QUIK △ SPO DWR 188 (REV. 3-54)

23/25-16N4

Page 2 of 2

Log No 55089

U.S.G.S.

TEST WELL

219	221	Sandy Brown Clay
221	225	Coarse Sand -
225	230	Sandy Brown Clay
230	237	Coarse Sand
237	244	Sandy Brown Clay
244	250	Coarse Sand

All strata where no color is designated were logged as being yellow-brown

The bottom of the casing is open and the gravel was allowed to flow into the well on top of an anchor to which a plastic covered wire rope is attached.

25/26-9

DUPLICATE
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No. 5
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

25/26-9N1 (G.S.)

STATE OF CALIFORNIA

10 2 1

LOCATION NOT CHECKED

Do Not Fill In

No. 36188

State Well No.
Other Well No. 25/26E-9

(2) LOCATION OF WELL:

County Kern Owner's number, if any—

R. F. D. or Street No.

Sec. 9
Twnshp 25 S
Range 26 E

(3) TYPE OF WORK (check):

New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) EQUIPMENT:

Rotary [X]
Cable [ ]
Dug Well [ ]

(6) CASING INSTALLED:

SINGLE [X] DOUBLE [ ]

From ft.	to ft.	Diam.	Gage or Wall
0	351	8"	12 ga.

If gravel packed

Diameter of Bore	from ft.	to ft.
12½"		
	0	351

Type and size of shoe or well ring

Size of gravel:

Describe joint

(7) PERFORATIONS:

Type of perforator used Machine

Size of perforations 1" in., length, by 1/8" in.

From ft.	to ft.	Perf. per row	Rows per ft.
276	351		

(8) CONSTRUCTION:

Was a surface sanitary seal provided? [ ] Yes [ ] No To what depth ft.

Were any strata sealed against pollution? [ ] Yes [ ] No If yes, note depth of strata

From ft. to ft.

Method of Sealing

(9) WATER LEVELS:

Depth at which water was first found ft.

Standing level before perforating ft.

Standing level after perforating ft.

(10) WELL TESTS:

Was a pump test made? [ ] Yes [ ] No If yes, by whom?

Yield: gal./min. with ft. draw down after hrs.

Temperature of water Was a chemical analysis made? [ ] Yes [ ] No

Was electric log made of well? [ ] Yes [ ] No

(11) WELL LOG:

Total depth ft. Depth of completed well ft.

Formation: *Describe by color, character, size of material, and structure.*

From ft.	to ft.	Formation
0	5	Top Soil
5	150	Hard Sand
150	240	Clay
240	250	Sand
250	310	Sandy Clay
310	320	Sand
320	351	Clay

(Well … feet north, … feet west of SE corner of section 9 (USGS))

CONFIDENTIAL
Section 7076.1, Water Code

Work started 19 Completed 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps Inc.
(Person, firm, or corporation) (Typed or printed)

Address 1744 High St.
Delano, Calif.

[SIGNED] Donald E. Ryan
Well Driller

License No. 148282 Dated 4/9/1956

DWR FORM NO. 240 (REV. 3-54)

24/25-16B1

ORIGINAL

LOG OF WELL

WHITTEN BROS. DRILLING COMPANY

"The Oldest and Still Best"
DELANO, CALIFORNIA
Well Drilled For

PHONE 2621

SINCE 1913

Name Emmitt Brown

Address Delano, California

Well Started March 6 Well finished March 20 Diameter 12"

Gauge 12-Dble Total Depth 300' Depth to Water Water level 104'

Strata Formation	From Feet	To Feet	Perforated	From Feet	To Feet
Clay	0	187	Perforating well from 120' to 285'		
Sand	187	190			
Clay	190	300			

BOISEY PORTABLE

23/26-28H1

23/26-28H1 (G.S.)

LOCATION NOT CHECKED

DUPLICATE
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No. 5
(Insert appropriate number)

WATER WELL DRILLERS REPORT
(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

1193

Do Not Fill In
Nº 32114
State Well No.
Other Well No. 23S/26E-28

(1) OWNER:
Name L.H. Bendosky
Address P.O. Box 1442
McFarland, California

(2) LOCATION OF WELL:
County Tulare   Owner's number, if any—
R. F. D. or Street No.
Section NW¼ 28
Township 23S
Range 26E

(3) TYPE OF WORK (check):
New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☒
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:
SINGLE ☒ DOUBLE ☐

From ft. to ft.	Diam.	Gage or Wall
300 ft.	8"	x # 12

If gravel packed

Diameter of Bore	from ft.	to ft.
12½	0	300

Type and size of shoe or well ring
Size of gravel:
Describe joint

(7) PERFORATIONS:
Type of perforator used Machine
Size of perforations 1/8" x 1" cc in., length, by in.

From ft. to ft.	Perf. per row	Rows per ft.
190 ft. to 300 ft.		

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☐ Yes ☐ No To what depth ft.
Were any strata sealed against pollution? ☒ Yes ☐ No If yes, note depth of strata
From 140 ft. to 160 ft.
Method of Sealing Cement plug

(9) WATER LEVELS:
Depth at which water was first found ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes, by whom?
Yield: gal./min. with ft. draw down after hrs.
Temperature of water Was a chemical analysis made? ☐ Yes ☐ No
Was electric log made of well? ☐ Yes ☐ No

(11) WELL LOG:
Total depth 300 ft. Depth of completed well 300 ft.
Formation: *Describe by color, character, size of material, and structure.*

From ft.	to ft.	Formation
0	6	Top Soil
6	24	Hard Pan
24	100	Sandy Clay
100	125	Sand
125	200	Yellow Clay
200	215	Sand
215	280	Clay
280	285	Sand
285	300	Hard Clay

CONFIDENTIAL
Section 7076.1, Water Code

Work started 4/55 19 . Completed 4/55 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps Inc.
(Person, firm, or corporation) (Typed or printed)
Address 1744 High St.
Delano, California
[SIGNED] [signature]
Well Driller
License No. 148282 Dated 6/16 1955

Appendix B

Driller's Logs and Hydrographs for Existing Lower Aquifer Wells

21123-36R1

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 Not Fill In

Nº 23051

State Well No. 21S/23E-36R1

Other Well No. 21123-36R1

(1) OWNER:

Name J. G. Boswell Co.

Address Po Box 877 Corcoran

(2) LOCATION OF WELL:

County Tulare Owner's number, if any S116

Township, Range, and Section 21S-23E-36

Distance from cities, roads, railroads, etc.

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐

Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☐

Cable ☐

Other ☐

(6) CASING INSTALLED:

STEEL: OTHER:

SINGLE ☒ DOUBLE ☐

From ft.	To ft.	Diam.	Gage or Wall
0	400	18"	3/8"
400	1000	12"	

If gravel packed

Diameter of Bore	From ft.	To ft.
28"	0	1000

Size of shoe or well ring:

Size of gravel: 1/4"

Describe joint welded

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
400	1000	12	24	3/8

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☐ No ☐ To what depth ft.

Were any strata sealed against pollution? Yes ☐ No ☒ If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known ft.

Standing level before perforating, if known ft.

Standing level after perforating and developing ft. 190

(10) WELL TESTS:

Was pump test made? Yes ☒ No ☐ If yes, by whom? Wilson

Yield: 2000 gal./min. from 190 ft. drawdown after hrs.

Temperature of water Was a chemical analysis made? Yes ☐ No ☒

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

(11) WELL LOG:

Total depth 1000 ft. Depth of completed well ft.

Formation: *Describe by color, character, size of material, and structure*

ft. to	ft.	
300	300	Clay
300	330	Sand
330	390	Clay
390	410	Sand
410	460	Clay
460	475	Sand
475	590	Clay
590	600	Sand
600	620	Clay
620	635	Sand
635	650	Clay
650	660	Sand
660	675	Clay
675	770	Sand
770	810	Clay
810	820	Sand
820	845	Clay
845	850	Sand
850	880	Clay
880	900	Sand
900	930	Clay
930	950	Sand
950	1000	Clay

CONFIDENTIAL
Water Code Sec. 7080

2 wells
Same
½ mile apart

Work started 19 , Completed 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Terry's Well Drilling
(Person, firm, or corporation) (Typed or printed)

Address 2125 Van Dorsten

[SIGNED] (Well Driller)

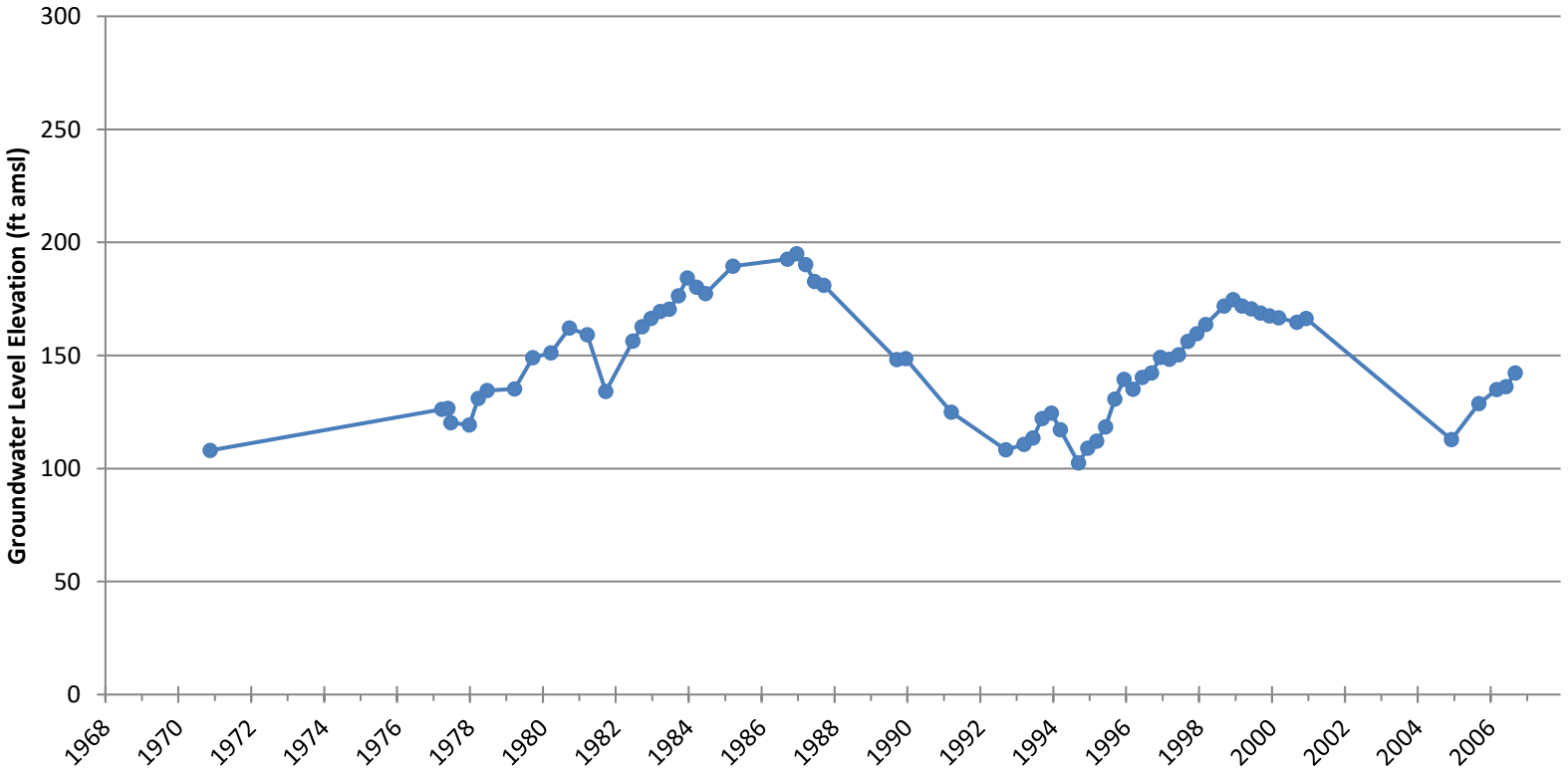
License No. 140990 Dated 11-20, 1966

SKETCH LOCATION OF WELL ON REVERSE SIDE

86391-950 10-65 50M TRIP ① △ OSP

Groundwater Hydrographs - Deep

21S/23E-36R01



22/24-1Q1

LOCATION NOT CHECKED

ORIGINAL - File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION CONTROL BOARD No.____ (Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

Do Not Fill In

No 66984

State Well No.____

Other Well No. 22/24-1Q1

(1) OWNER:

Name Mrs. C. P. Mauser

Address 447 E/ Poplar Rd.
Porterville, Calif.

(2) LOCATION OF WELL:

County Tulare Owner's number, if any—

R. F. D. or Street No.

(3) TYPE OF WORK (*check*):

New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (*check*):

Domestic ☐ Industrial ☐ Municipal ☐

Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒

Cable ☐

Dug Well ☐

(6) CASING INSTALLED:

SINGLE ☒ DOUBLE ☐

From ft.	to ft.	Diam.	Gage or Wall
480'		3/16" Wall	

Type and size of shoe or well ring

Describe joint 78 ton

If gravel packed

Diameter of Bore	from ft.	to ft.

Size of gravel: 6-20

(7) PERFORATIONS:

Type of perforator used

Size of perforations in., length, by in.

From ft.	to ft.	Perf. per row	Rows per ft.
480	700		
220'	perforated		

(8) CONSTRUCTION:

Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.

Were any strata sealed against pollution? ☐ Yes ☒ No If yes, note depth of strata

From ft. to ft.

Method of Sealing

(9) WATER LEVELS:

Depth at which water was first found 90 ft.

Standing level before perforating ft.

Standing level after perforating ft.

(10) WELL TESTS:

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. draw down after hrs.

Temperature of water Was a chemical analysis made? ☐ Yes ☒ No

Was electric log made of well? ☐ Yes ☒ No

(11) WELL LOG:

Total depth 720 ft. Depth of completed well 700 ft.

Formation: *Describe by color, character, size of material, and structure.*

0 ft. to	50 ft.	Sandy clay
50 "	140 "	Sand, clay strks.
140 "	152 "	Clay
152 "	230 "	Sand, clay strks.
230 "	245 "	Clay
245 "	320 "	Sand
320 "	328 "	Clay
328 "	420 "	Sand, clay strks.
420 "	440 "	Clay
440 "	550 "	Sand
550 "	572 "	Hard sand
572 "	720 "	Sand, clay strks.

Work started Jan. 23 1961. Completed Feb. 7 1961

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Knapp & Graham, Inc.
(Person, firm, or corporation) (Typed or printed)

Address 1155 W. Inyo St.
Tulare, Calif.

[SIGNED] [signature] Well Driller

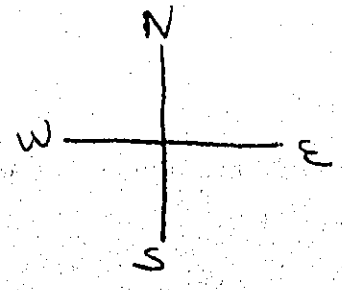
License No. 193493 Dated Feb. 8, 1961

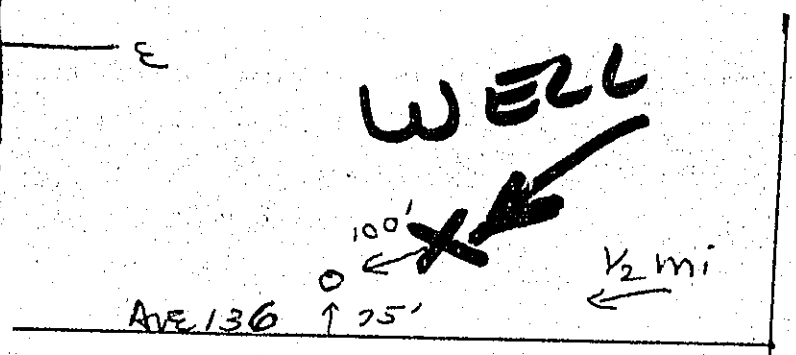
22/24-1Q1

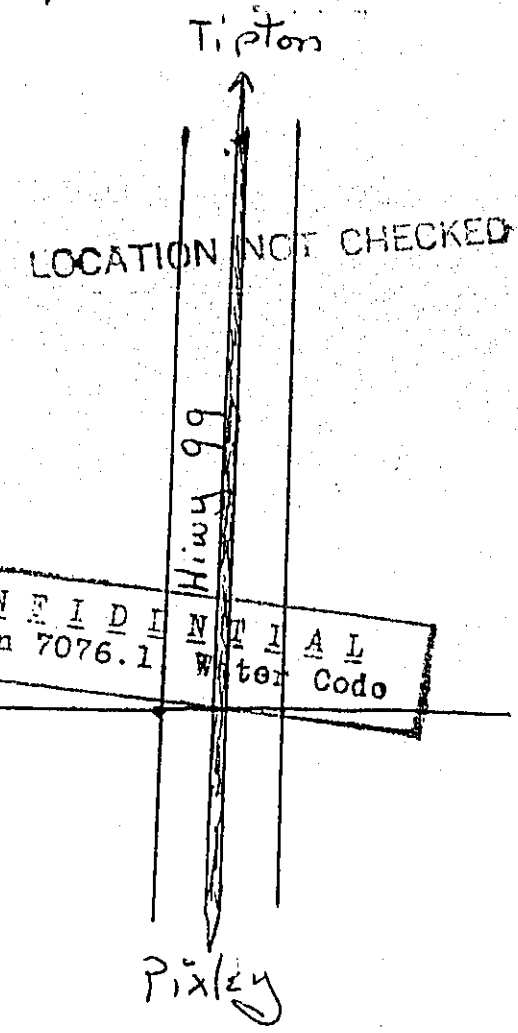
Location of well

Log # 66984

Mrs. C. P. Manser
447 E. Poplar Rd
Porterville



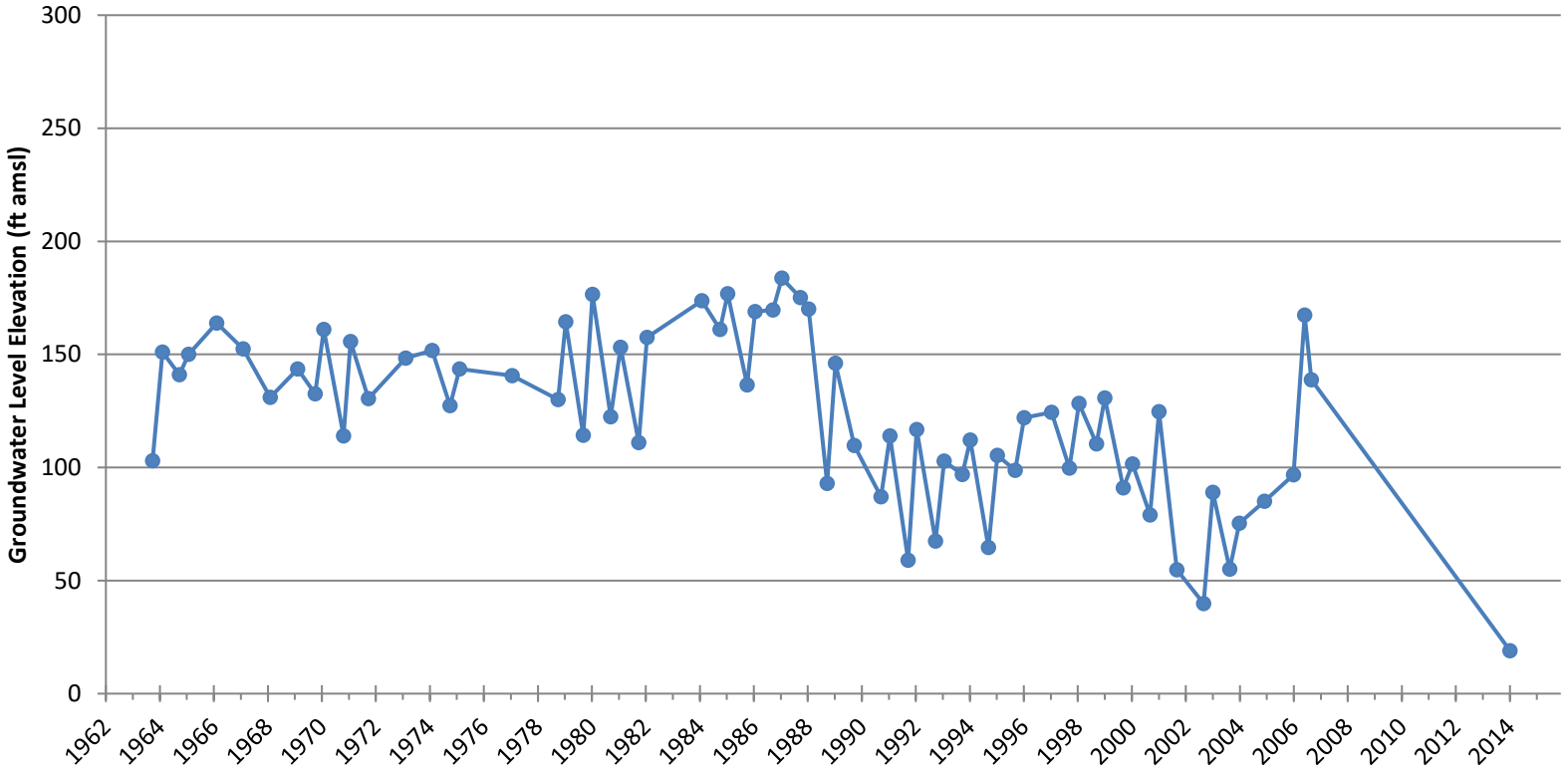




Sec 1
T22S R24E

Groundwater Hydrographs - Deep

22S/24E-01Q01



ORIGINAL 24/27-8L
File with DWR

WATER WELL DRILLERS REPORT

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

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Do Not Fill In
No 337

State Well No.
Other Well No. 24S/27E-8L

(1) OWNER:
Name Marko Zaninovich, Inc.
Address Rt. 1, Box 725
Delano, Calif. 93215

(2) LOCATION OF WELL:
County Tulare Owner's number, if any
Township, Range, and Section
Distance from cities, roads, railroads, etc. ½ mile North of Ave. 32 and ½ mile East of Rd. 216

(3) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐
If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☒
Cable ☐
Other ☐

(6) CASING INSTALLED:
STEEL: OTHER:
SINGLE ☒ DOUBLE ☐

From ft.	To ft.	Diam.	Gage or Wall
0	703	16"	¼"
703	1747	14"	¼"
16" to 14" slip jt.			

If gravel packed

Diameter of Bore	From ft.	To ft.
25½	top	bottom

Size of shoe or well ring:
Size of gravel: ¼"
Describe joint collar w/ fillet weld.

(7) PERFORATIONS OR SCREEN:
Type of perforation or name of screen machine

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
522	703	2	16	.100 x 2
703	1747	2	14	.100 x 2

(8) CONSTRUCTION:
Was a surface sanitary seal provided? Yes ☐ No ☒ To what depth ft.
Were any strata sealed against pollution? Yes ☐ No ☒ If yes, note depth of strata
From ft. to ft.
From ft. to ft.
Method of sealing

(9) WATER LEVELS:
Depth at which water was first found, if known unknown.
Standing level before perforating, if known ft.
Standing level after perforating and developing ft.

(10) WELL TESTS:
Was pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
Temperature of water Was a chemical analysis made? Yes ☐ No ☒
Was electric log made of well? Yes ☒ No ☐ If yes, attach copy

(11) WELL LOG:
Total depth 1747 ft. Depth of completed well 1747 ft.
Formation: *Describe by color, character, size of material, and structure*

ft. to	ft.	
0 ft. to	9 ft.	top soil
9	60	sandy clay
60	63	sand
63	253	sandy clay
253	257	sand
257	473	sandy clay
473	479	sand
479	695	sandy clay
695	745	blue clay
745	748	sand
748	812	blue clay
812	943	sandy clay
943	1033	sediment
1033	1246	shale & clay
1246	1361	blue clay
1361	1371	hard shale
1371	1455	shale & clay
1455	1488	hard shale
1488	1588	hard shale & clay
1588	1729	hard sand
1729	1747	sand & clay

CONFIDENTIAL
Water Code Sec. 13752

Work started 11/1/67 Completed 11/14/67

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps, Inc.
(Person, firm, or corporation) (*Typed or printed*)
Address 1744 Inyo St.
Delano, Calif. 93215
[SIGNED] Donald Whitten
(Well Driller)
License No. 148282 Dated 11/13/68, 19

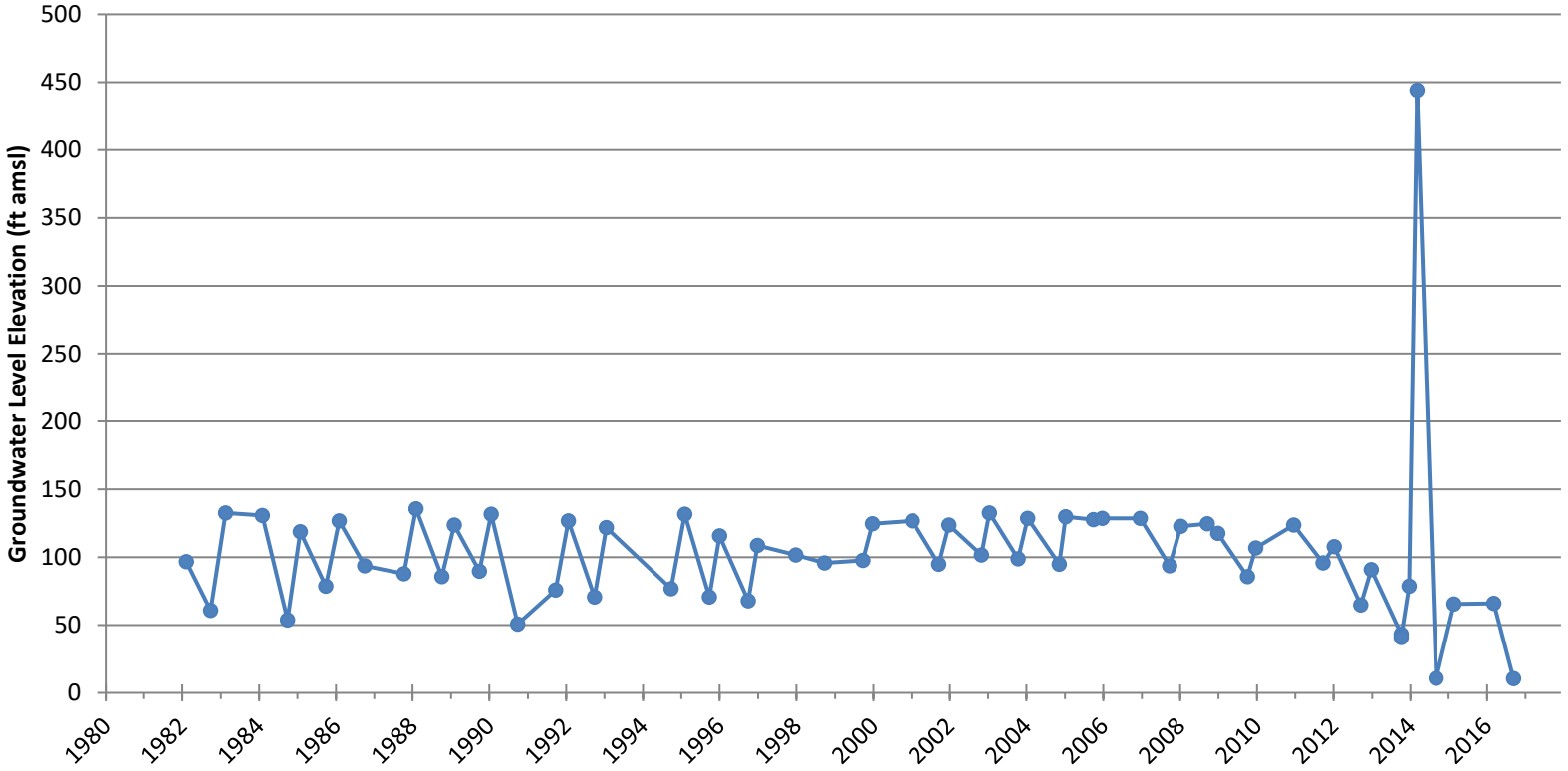
SKETCH LOCATION OF WELL ON REVERSE SIDE

DWR 188 (REV. 9-65)

86391-950 10-65 SOM TRIP ① △ OSP

Groundwater Hydrographs - Deep

24S/27E-08L01



24/27-32K1

DUPLICATE
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No. 5
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

24/27-32K1 (G.S.)

STATE OF CALIFORNIA

1160

LOCATION NOT CHECKED

Do Not Fill In

№ 32108

State Well No.

Other Well No. 24S/27E-32

(1) OWNER:

Name Earl Thomas Enterprises

Address Rt. 2 Box 296

Delano, California

(2) LOCATION OF WELL:

County Tulare Owner's number, if any—

R. F. D. or Street No.

SE ¼ Section 32
Township 24S
Range 27E

(3) TYPE OF WORK (check):

New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:

SINGLE ☒ DOUBLE ☐

From ft. to ft. Diam. Gage or Wall

1800 ft. 14" x ¼" casing

If gravel packed

Diameter of Bore 26" from ft. to ft.

0 to 1800 ft

Type and size of shoe or well ring

Size of gravel: 3/8"

Describe joint

(7) PERFORATIONS:

Type of perforator used Machine

Size of perforations 1/8" x 1" cc in., length, by in.

From ft. to ft. Perf. per row Rows per ft.

1002 ft. to 1800 ft.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? ☐ Yes ☐ No To what depth ft.

Were any strata sealed against pollution? ☐ Yes ☐ No If yes, note depth of strata

From ft. to ft.

Method of Sealing

(9) WATER LEVELS:

Depth at which water was first found ft.

Standing level before perforating ft.

Standing level after perforating ft.

(10) WELL TESTS:

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

Yield: gal./min. with ft. draw down after hrs.

Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

Was electric log made of well? ☐ Yes ☐ No

(11) WELL LOG:

Total depth 1800 ft. ft. Depth of completed well 1800 ft. ft.

Formation: *Describe by color, character, size of material, and structure.*

From (ft.)	To (ft.)	Formation
0	3	Top Soil
3	180	Sandy Clay
180	183	Sand
183	240	Hard Sand
240	310	Sandy Clay
310	356	Hard Clay
356	360	Sand
360	395	Hard Clay
395	420	Hard Sand
420	427	Sand
427	465	Sandy Clay
465	500	Blue Clay
500	516	Blue Shale
516	530	Clay
530	544	Sediment
544	569	Hard Sandy Clay
569	633	Sediment
633	650	Shale & Clay
650	679	Sediment
679	709	Blue Clay
709	712	Sand
712	739	Blue Sediment
739	742	Sand
742	767	Hard Clay
767	770	Hard Slate
770	802	Shale
802	812	Blue Clay
812	816	Sand
816	822	Clay
822	850	Sediment
850	865	~~Sediment~~ Clay
865	944	Sediment
944	948	Sand
948	958	Hard Clay
958	1004	Sediment
1004	1008	Sand
1008	1080	Blue Sediment
1080	1082	Sand
1082	1108	Sediment
1108	1271	Shale & Clay
1271	1301	Hard Slate
1301	1401	Shale

Cont'd ↓ 1800'

0.47 mi north, 0.48 mi west of SE corner of section 32 (USGS)

CONFIDENTIAL
Section 7076.1, Water Code

Work started 4/2/55 19 Completed 5/5/55 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps Inc.
(Person, firm, or corporation) (Typed or printed)

Address 1744 High St.
Delano, California

[SIGNED] [signature]
Well Driller

License No. 148282 Dated , 19

DWR FORM NO. 246 (REV. 3-54)

24/27-32K1

LOG NO. 32108

Well Log Continued

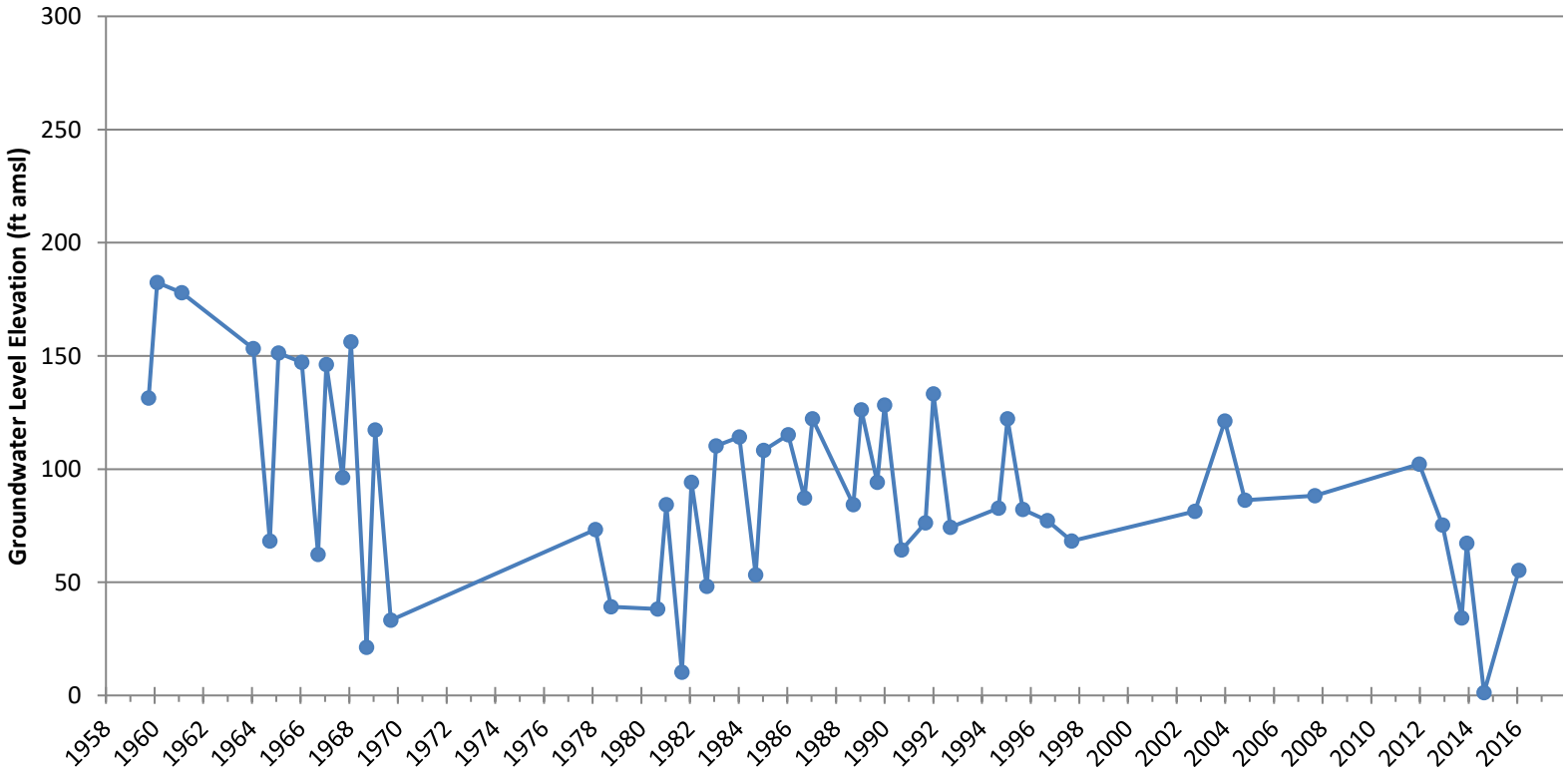
1401	ft. to	1410 ft.	Hard Clay
1410	" "	1413	Sand
1413		1423	Clay
1423		1426	Sand
1426		1433	Clay
1433		1435	Hard Shale
1435		1475	Shale
1475		1493	Blue Shale
1493		1500	Clay
1500		1515	Shale
1515		1522	Clay
1522		1526	Shale
1526		1551	Very Hard Slate
1551		1590	Shale
1590		1628	Sandy Shale
1628		1750	Sand & Shale
1750		1765	Sandy Clay
1765		1780	Clay
1780		1800	Blue Shale

0.47 ~~feet~~ mile north, 0.49 ~~feet~~ mile west of SE corner of Section 32 (USGS)

24/27-32K1

Groundwater Hydrographs - Deep

24S/27E-32K01



DUPLICATE 24/24-3A1

File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION CONTROL BOARD No. 5 (Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA 2406

LOCATION NOT CHECKED

Do Not Fill In

No 63263

State Well No. 3A1

Other Well No. 24S/24E-3

(1) OWNER:

Name: Jack C. Phillips Ranch

Address: Star Route, Box 66, Earlimart, California

(2) LOCATION OF WELL:

County: Tulare   Owner's number, if any—

R. F. D. or Street No.: Southwest corner of intersection of Ave. 48 and Rd. 92.

(3) TYPE OF WORK (check):

New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic [ ] Industrial [ ] Municipal [ ] Irrigation [X] Test Well [ ] Other [ ]

(5) EQUIPMENT:

Rotary [X] Cable [ ] Dug Well [ ]

(6) CASING INSTALLED:

SINGLE [X] DOUBLE [ ]

From ft. to ft.	Diam.	Gage or Wall
600 ft.	16"	1/4 Single
1,002 ft.	14"	1/4 Single

If gravel packed: Diameter of Bore 28"; from Top to bottom Bottom

Type and size of shoe or well ring:

Size of gravel: 3/8

Describe joint: Butt Welded

(7) PERFORATIONS:

Type of perforator used: Machine

Size of perforations 1/8 in., length, by 1 cc in.

From ft. to ft. — 4 Perf. per row — 18 Rows per ft.

804 ft. to 1,602 ft.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? [ ] Yes [X] No To what depth ft.

Were any strata sealed against pollution? [ ] Yes [X] No If yes, note depth of strata

From ft. to ft.

Method of Sealing

(9) WATER LEVELS:

Depth at which water was first found: Unknown ft.

Standing level before perforating ft.

Standing level after perforating ft.

(10) WELL TESTS:

Was a pump test made? [ ] Yes [X] No If yes, by whom?

Yield: gal./min. with ft. draw down after hrs.

Temperature of water   Was a chemical analysis made? [ ] Yes [X] No

Was electric log made of well? [ ] Yes [X] No

(11) WELL LOG:

Total depth 1,602 ft. Depth of completed well 1,602 ft.

Formation: Describe by color, character, size of material, and structure.

From ft.	To ft.	Formation
0	35	Sandy Clay
35	153	Sandy
153	188	Clay
188	235	Hard Sand
235	270	Clay
270	273	Sand
273	315	Sandy Clay
315	338	Hard Shale
338	430	Sandy Clay
430	436	Sand
436	458	Sandy Clay
458	582	Clay
582	643	Blue Clay
643	710	Sandy Clay
710	730	Sand
730	745	Sandy Clay
745	792	Shale
792	892	Clay
892	906	Sand
906	945	Sandy Clay
945	960	Blue Clay
960	963	Sand
963	1036	Hard Shale
1036	1070	Clay
1070	1096	Shale
1096	1125	Clay
1125	1140	Sand
1140	1170	Shale
1170	1200	Clay
1200	1247	Sandy Clay
1247	1257	Hard Shale
1257	1260	Sand
1260	1390	Shale
1390	1405	Sand
1405	1425	Sandy Clay
1425	1488	Shale
1488	1502	Clay
1502	1575	Shale
1575	1590	Sand
1590	1602	Hard Shale

CONFIDENTIAL Section 7076 Water Code

Work started 6/7/60   Completed 6/24/60

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME: Whitten Pumps, Inc. (Person, firm, or corporation) (Typed or printed)

Address: 1744 High St., Delano, Calif.

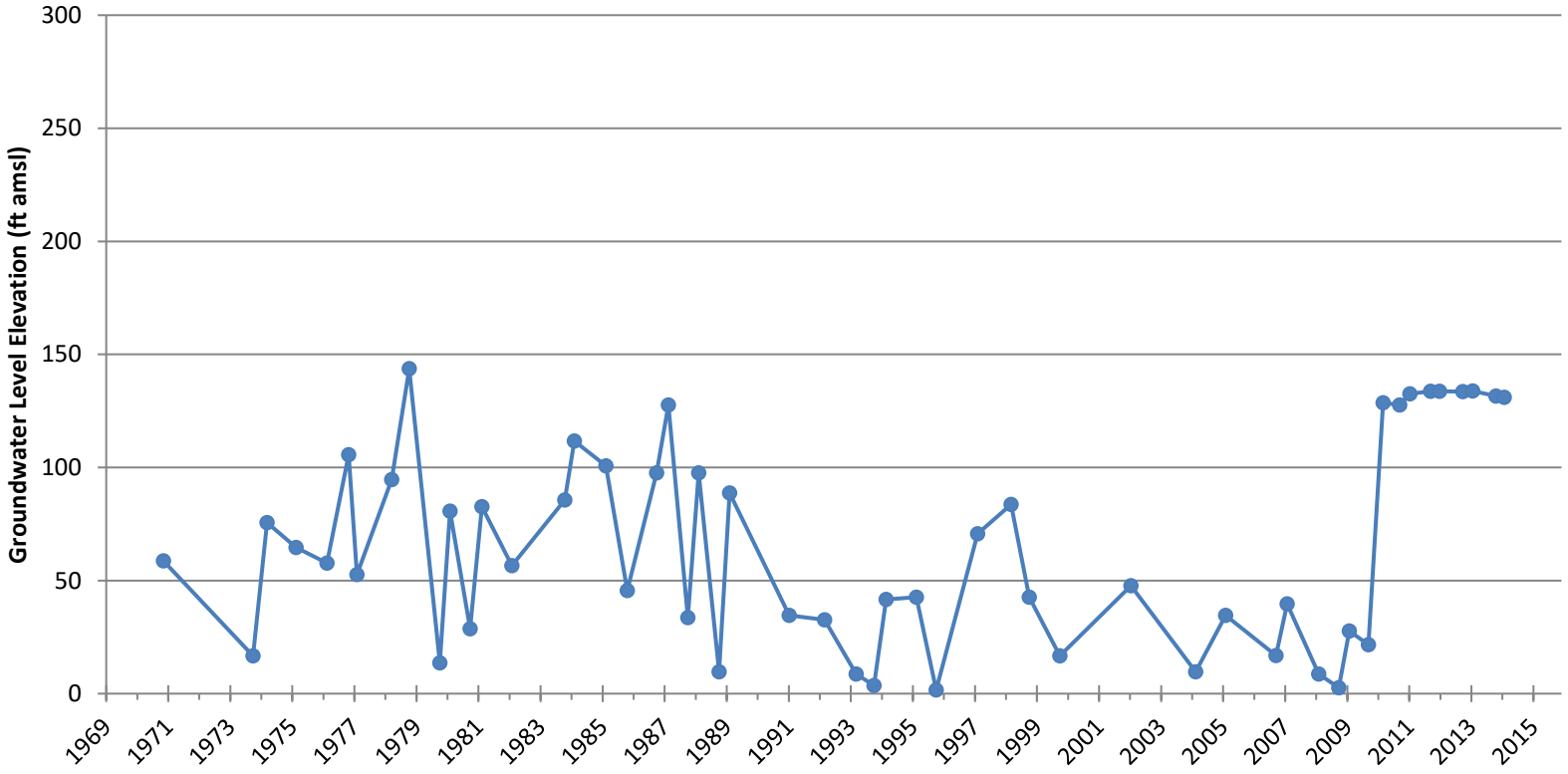
[SIGNED] Donald E. Hyer (Well Driller)

License No. 148282   Dated 11-1-1960

87025 6-57 30M QUIN SPO   DWR 188 (REV. 3-54)

Groundwater Hydrographs - Deep

24S/24E-03A01



TRIPLICATE
Owner's Copy

Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. EO117919

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. MW-6
Date Work Began 9/24/2010, Ended 9/24/2010
Local Permit Agency ENVIRO HEALTH, TULARE
Permit No. 10-0338 Permit Date 8/30/2010

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD ROTARY FLUID WATER

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0	20	TOP SOIL, MEDIUMFINE/COARSE SANDS
20	40	MEDIUM/FINE/COARSE SANDS
40	80	EDIUM/FINE/COARSE SANDS WITH SOME CLAY
80	120	MEDIUM/FINE/COARSE SANDS WITH MORE
		CLAY
120	140	MEDIUM/FINE/COARSE SANDS, WITH SOME
		CLAY
140	160	MEDIUM/FINE/COARSE SANDS WITH SOME
		CLAY
160	200	MEDIUM/FINE/COARSE SANDS
200	300	MEDIUM/FINE/COARSE SANDS WITH SOME
		CLAY
300	340	MEDIUM/FINE/COARSE SANDS, SOME CLAY
		SOME D.G.
340	420	MEDIUM/FINE/COARSE SANDS WITH SOME
		CLAY
420	560	CLAY WITH SOME SANDS
560	620	CLAY WITH MORE SANDS MEDIUM/FINE
620	680	CLAY WITH SOME MEDIUM/FINE SANDS
680	720	MOSTLEY CLAY
720	740	CLAY WITH SOME MEDIUM/FINE SANDS
740	760	MEDIUM/FINE/COARSE SANDS WITH SOME
		CLAY AND SHALE
760	810	MEDIUM/FINE/COARSE SANDSWITH CLAY

TOTAL DEPTH OF BORING 810 (Feet)
TOTAL DEPTH OF COMPLETED WELL 805 (Feet)

WELL OWNER

Name SURINDERPAL GILL
Mailing Address 16964 AVENUE 32
DELANO CA 93215
CITY STATE ZIP

WELL LOCATION

Address 1/2 MI N AVE. 26 & 1/2 MI E. ROAD 16
City DELANO CA 93215
County TULARE
APN Book 3381 Page 003 Parcel 24
Township 24 Range 26 Section 17
Latitude ___ DEG. ___ MIN. ___ SEC. ___ DEG. ___ MIN. ___ SEC.

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)
✓ NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)
WATER SUPPLY
___ Domestic ___ Public
___ Irrigation ___ Industrial
MONITORING ✓
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___
ESTIMATED YIELD * ___ (GPM) & TEST TYPE AIR LIFT
TEST LENGTH 4 (Hrs.) TOTAL DRAWDOWN ___ (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
#1										
0	200	16"	✓				PVC	4"	SCH 40	
200	350	16"		✓			PVC	4"	SCH 40	.030
#2										
0	705	12 1/4"	✓				PVC	4"	SCH 40	
705	805	12 1/4"		✓			PVC	4"	SCH 40	.030

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	130	✓			
360	370		✓		
464	474		✓		
590	600		✓		
630	640		✓		
660	670		✓		

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analysis
___ Other ___
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

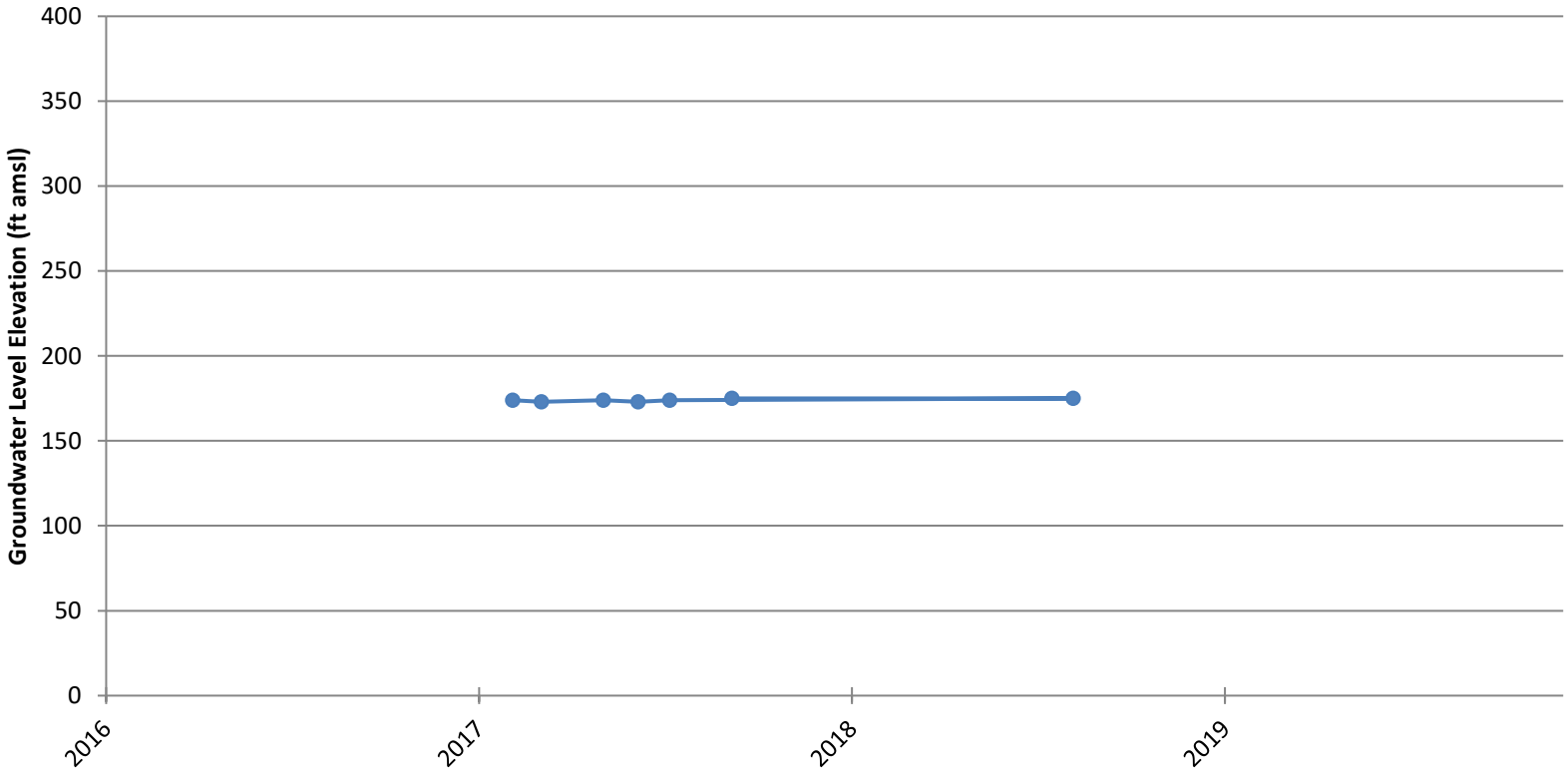
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME BRADLEY & SONS
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
3625 S. HIGHLAND DEL REY CA 93616
ADDRESS CITY STATE ZIP
Signed Donna Bodine 10/06/10 414178
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

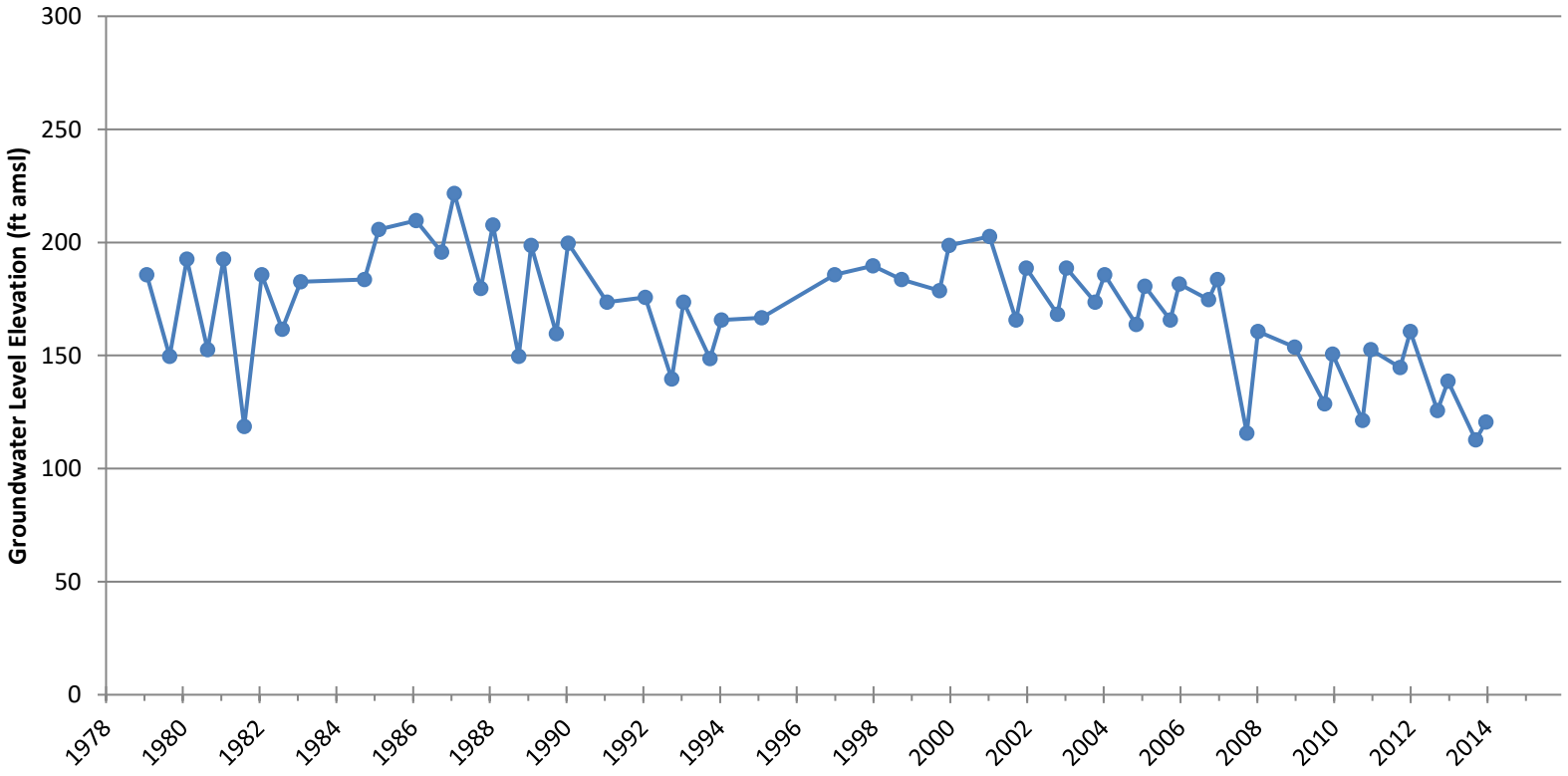
Groundwater Hydrographs - Deep

M-19



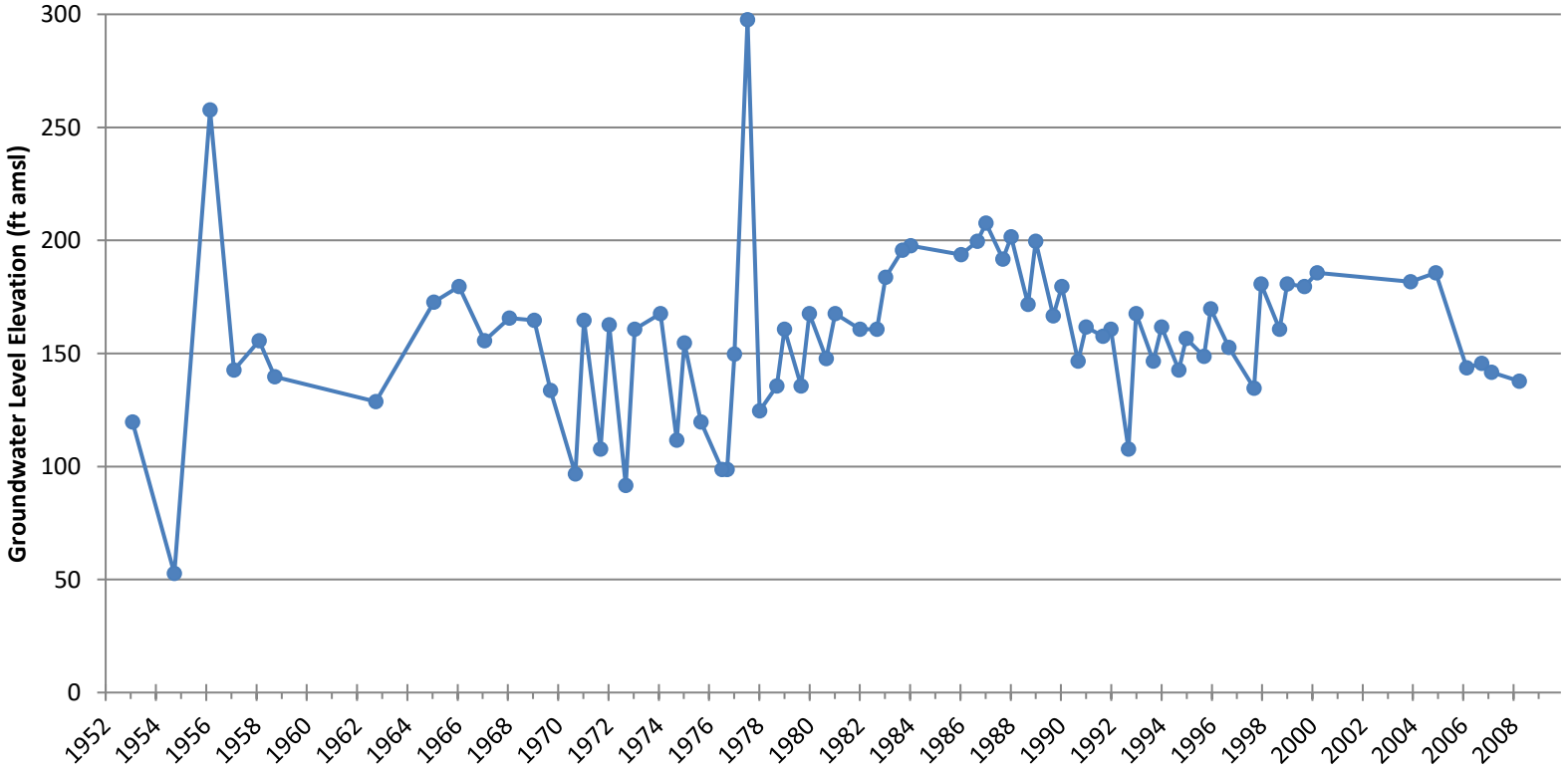
Groundwater Hydrographs - Deep

24S/25E-13F01



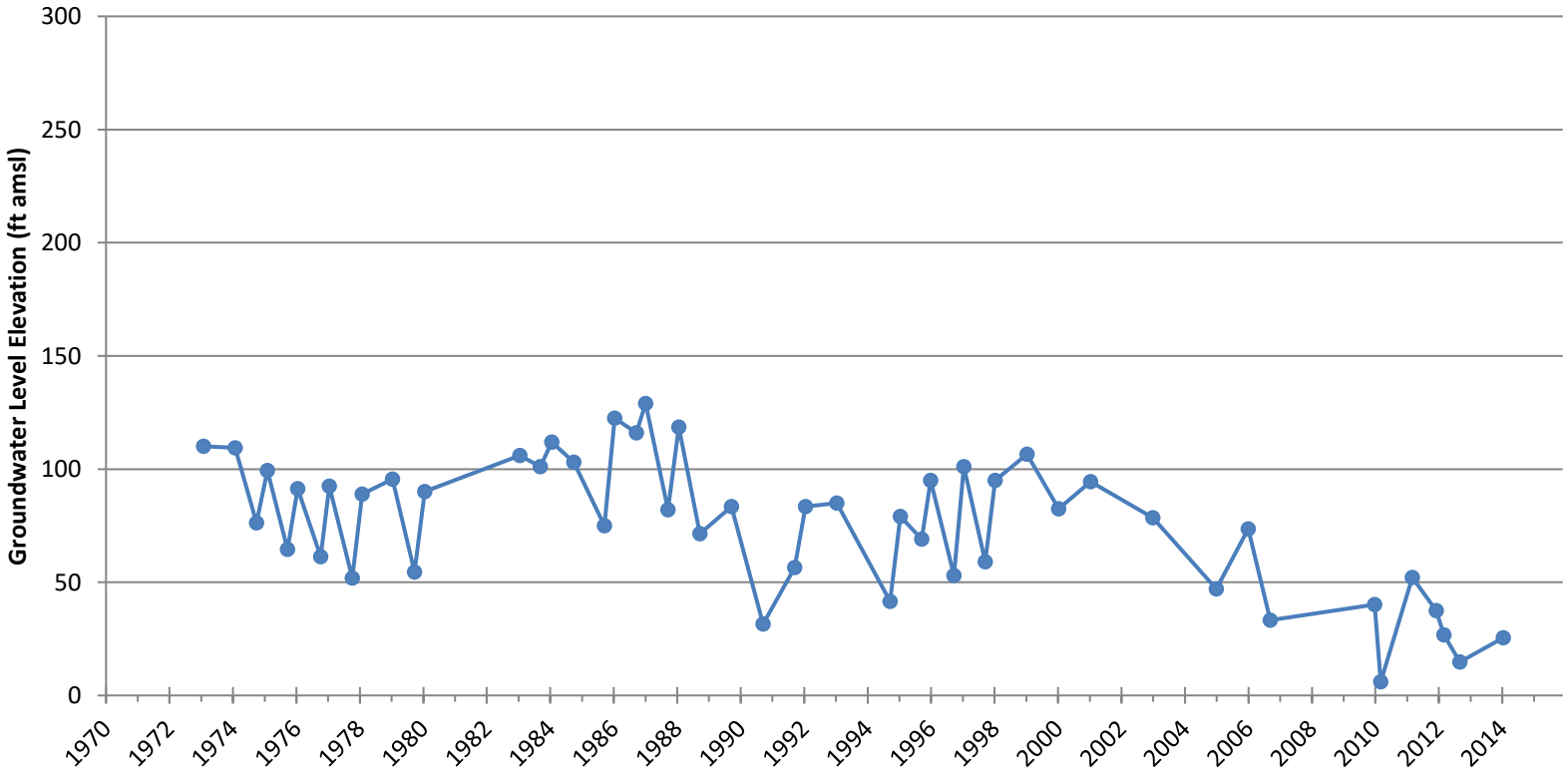
Groundwater Hydrographs - Deep

24S/25E-36J01



Groundwater Hydrographs - Deep

23S/23E-02A01



File Original with DWR

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

DWR USE ONLY — DO NOT FILL IN

2 15/23E25 — STATE WELL NO./STATION NO. — 1/1

LATITUDE — LONGITUDE — 1/13

APN/TRS/OTHER

Page 1 of 2

Owner's Well No. Well #1 — No. e0078297

Date Work Began 8/16/08 — Ended 10/07/08

Local Permit Agency Tulare County Environmental Health Division

Permit No. 08-0339 — Permit Date 7/9/08

GEOLOGIC LOG

ORIENTATION (X) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD Reverse Rotary — FLUID ___

DEPTH FROM SURFACE FL to Ft.		DESCRIPTION *Describe material, grain size, color, etc.*
50	80	Brown clay, gravel
80	90	Brown clay
90	230	Brown clay, gravel
230	260	Gray clay, gravel
260	280	Gray clay
280	310	Gray clay, sand
310	320	Gray clay, gravel
320	360	Gray clay, sand
360	370	Gray clay
370	380	Gray clay, sand
380	410	Gray clay, gravel
410	420	Clay and cobbles, gravel
420	470	Clay and gravel
470	490	Gray clay
500	510	Gray clay, sandy
510	530	Gray clay
530	540	Gray clay, sandy
540	550	Gray clay
550	570	Clay and gravel
570	580	Coarse sand
580	590	Clay, gravel, and sand
590	610	Clay and little gravel
610	620	Clay and gravel
620	630	Gray clay and gravel
630	640	Gray clay
640	720	Gray clay and gravel
720	730	Gravel
730	740	Clay
740	760	Gray clay and gravel
760	790	Gray clay

TOTAL DEPTH OF BORING 1280 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1270 (Feet)

WELL OWNER

Name Te Velde Farming

Mailing Address 5850 Ave 160

City Tipton — State CA — ZIP 93272

WELL LOCATION

Address 5850 Ave 160

City Tipton — State CA — ZIP 93272

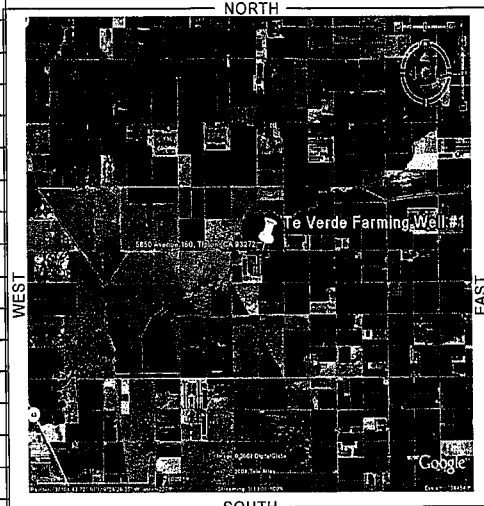
County Tulare County

APN Book 200 — Page 190 — Parcel 004

Township 21S — Range 23E — Section 25

Latitude 36 DEG. 4 MIN. 46.53 SEC. NORTH — Longitude 119 DEG. 26 MIN. 11.47 SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance Of Well from Roads Buildings, Fences, Rivers etc and attach map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (X)

X NEW WELL

___ MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (X)

WATER SUPPLY

X Domestic ___ Public

X Irrigation ___ Industrial

___ MONITORING

___ TEST WELL

___ CATHODIC PROTECTION

___ HEAT EXCHANGE

___ DIRECT PUSH

___ INJECTION

___ VAPOR EXTRACTION

___ SPARGING

___ REMEDIATION -

___ OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER N/A (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 259.6 *(Ft.)* & DATE MEASURED 10/04/08-10/07/08

ESTIMATED YIELD 2008 (GPM) & TEST TYPE Constant

TEST LENGTH 37 (Hrs.) TOTAL DRAWDOWN 216.88 *(Ft.)*

** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (inches)	TYPE (-') BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	OUTSIDE DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0 to 40	40			X		Steel	32	.375	
0 to 640	28	X				Steel	18	.375	
640 to 660	28		X			Steel	16	.312	.060 Standard Louver
660 to 1260	26		X			Steel	16	.312	.060 Standard Louver
1260 to 1270	26	X				Steel	18	.375	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CE-MENT (X)	BEN-TONITE (X)	FILL (X)	FILTER PACK (TYPE/SIZE)
0 to 20	X			
20 to 1260			X	1/4 x 10 Gravel Pack

ATTACHMENTS (X)

X Geologic Log

X Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

1, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Layne Christensen Company (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 11001 Etiwanda Ave — CITY Fontana — STATE CA — ZIP 92337

Signed ___ (WELL DRILLER/AUTHORIZED REPRESENTATIVE) — DATE SIGNED 10/10/08 — C-57 LICENSE NUMBER 510011

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

File Original with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY — DO NOT FILL IN
21S/23E-25 Z/B
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Page 2 of 2
Owner's Well No. Well #1 No. e0078297
Date Work Began 8/16/08 Ended 10/07/08
Local Permit Agency Tulare County Environmental Health Division
Permit No. 08-0339 Permit Date 7/9/08

GEOLOGIC LOG

ORIENTATION (X) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Reverse Rotary FLUID ___

DEPTH FROM SURFACE FL to Ft.		DESCRIPTION *Describe material, grain size, color, etc.*
790	910	Gray clay and gravel
910	920	Gray clay, sand and gravel
920	940	Clay and coarse sand
940	950	Clay, sand, and gravel
950	960	Sand and gravel
960	1030	Sandy clay
1030	1040	Sandy clay and gravel
1040	1060	Gray clay and gravel
1060	1070	Gravel and gray clay
1070	1120	Gray clay
1120	1150	Gray clay and coarse sand
1150	1160	Gray clay and gravel
1160	1200	Gray clay
1200	1260	Gray clay and gravel

TOTAL DEPTH OF BORING 1280 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1270 (Feet)

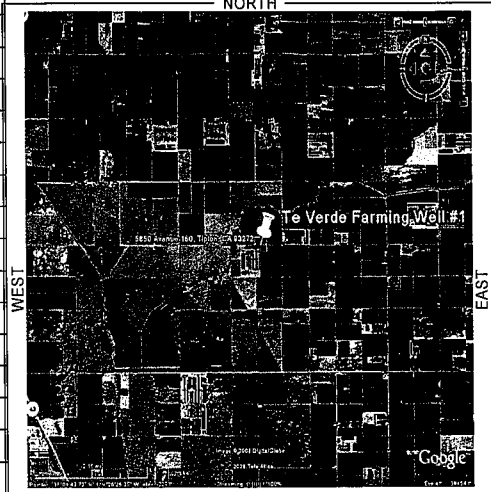
WELL OWNER

Name Te Velde Farming
Mailing Address 5850 Ave 160
Tipton CA 93272
CITY STATE ZIP

WELL LOCATION

Address 5850 Ave 160
City Tipton CA 93272
County Tulare County
APN Book 200 Page 190 Parcel 004
Township 21S Range 23E Section 25
Latitude 36 DEG. 4 MIN. 46.53 SEC. NORTH
Longitude 119 DEG. 26 MIN. 11.47 SEC. WEST

LOCATION SKETCH

NORTH


Illustrate or Describe Distance of Well from Roads Buildings, Fences, Rivers etc and attach map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (X)

X NEW WELL
___ MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (X)
WATER SUPPLY
X Domestic ___ Public
X Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER N/A (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 259.6 *(Ft.)* & DATE MEASURED 10/04/08-10/07/08
ESTIMATED YIELD 2008 (GPM) & TEST TYPE Constant
TEST LENGTH 37 (Hrs.) TOTAL DRAWDOWN 216.88 *(Ft.)*
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (inches)	TYPE (-) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	OUTSIDE DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CE-MENT (X)	BEN-TONITE (X)	FILL (X)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (X)

X Geologic Log
X Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

1, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Layne Christensen Company (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 11001 Etiwanda Ave CITY Fontana STATE CA ZIP 92337
Signed [signature] (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED 10/10/08
C-57 LICENSE NUMBER 510011

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR 22S/23E/16

Page 1 of 1

Owner's Well No. 6535

Date Work Began 09/26/94, Ended 10/04/94

Local Permit Agency TULARE CO ENVIRONMENTAL HEALTH

Permit No. 30036 Permit Date 08/24/94

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 545936

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	3	TOP SOIL
3	15	SANDY YELLOW CLAY
15	110	SAND WITH BROWN CLAY STREAKS
110	250	SANDY BLUE CLAY W/SAND STRKS
250	300	SAND W/BLUE CLAY STREAKS
300	325	SANDY BLUE CLAY
325	400	SAND WITH BLUE CLAY STREAKS
400	420	BLUE CLAY
420	435	SANDY BLUE CLAY
435	555	CORCORAN CLAY
555	700	SAND WITH BLUE CLAY STREAKS
700	860	INTERBEDDED SAND & BLUE CLAY
860	885	SANDY BLUE CLAY
885	930	SAND WITH BLUE CLAY STREAKS
930	970	INTERBEDDED SAND & BLUE CLAY
970	1010	SAND WITH BLUE CLAY STREAKS
1010	1090	INTERBEDDED SAND & BLUE CLAY
1090	1210	SILTY BLUE SAND
1210	1300	INTERBEDDED SAND

CONFINED

TOTAL DEPTH OF BORING 1270 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1210 (Feet)

WELL OWNER

Name CORCPORK COMPANY

Mailing Address 3922 AVENUE 120

CORCORAN (CITY) CA (STATE) 93212 (ZIP)

WELL LOCATION

Address HWY 43 AVE 120

City ___

County TULARE

APN Book 291 Page 060 Parcel 19001

or Township 22 S Range 23 E Section 16

or Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING

WATER SUPPLY

___ Domestic

___ Public

X Irrigation

___ Industrial

___ "TEST WELL"

___ CATHODIC PROTECTION

___ OTHER (Specify)

DRILLING METHOD ROTARY FLUID MUD

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___

ESTIMATED YIELD* ___ (GPM) & TEST TYPE ___

TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)

* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL/GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	540	28"					ACCESS TUBE	2"	SCH 40	
0	560	28"	X				ASTM-135	16"	.312	
560	690	28"		X			DBL MILLSLOT	16"	.312	0.060
690	710	26"	X				ASTM-135	12-3/4	.312	
710	720	26"		X			DBL MILLSLOT	12-3/4	.312	0.050
720	730	26"	X				ASTM-135	12-3/4	.312	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	X			SAND SLURRY
50	540			X	GRAVEL
540	1270			X	SAND PACK

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME EATON DRILLING COMPANY, INC. (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

~~20 W. Kentucky Ave.~~ (ADDRESS) ~~Woodland~~ (CITY) ~~CA~~ (STATE) ~~95695~~ (ZIP)

Signed ___ (WELL DRILLER/AUTHORIZED REPRESENTATIVE) ~~10/13/94~~ (DATE SIGNED) ~~132783C57~~ (C-57 LICENSE NUMBER)

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Page 1 of 1

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 545937

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Owner's Well No. 6535P2

Date Work Began 09/26/94 Ended 10/04/94

Local Permit Agency TULARE CO ENVIRONMENTAL HEALTH

Permit No. 30036 Permit Date 08/24/94

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*

TOTAL DEPTH OF BORING 1270 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1210 (Feet)

WELL OWNER

Name CORCPORK COMPANY

Mailing Address 3922 AVENUE 120

CORCORAN CA 93212

CITY STATE ZIP

WELL LOCATION

Address SAME AS PAGE ONE

City

County TULARE

APN Book 291 Page 060 Parcel 19001

or Township 22 S Range 23 E Section 16

or Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING

WATER SUPPLY

___ Domestic

___ Public

X Irrigation

___ Industrial

___ "TEST WELL"

___ CATHODIC PROTECTION

___ OTHER (Specify)

DRILLING METHOD ROTARY FLUID MUD

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___

ESTIMATED YIELD* ___ (GPM) & TEST TYPE ___

TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)

* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
730 to 760	26"		X			DBL MILLSLOT	12-3/4	.312	0.050
760 to 810	26"	X				ASTM-135	12-3/4	.312	
810 to 860	26"		X			DBL MILLSLOT	12-3/4	.312	0.050
860 to 900	26"	X				ASTM-135	12-3/4	.312	
900 to 930	26"		X			DBL MILLSLOT	12-3/4	.312	0.050
930 to 970	26"	X				ASTM-135	12-3/4	.312	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME EATON DRILLING COMPANY, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

20 W. Kentucky Ave. Woodland CA 95695

ADDRESS CITY STATE ZIP

Signed ___ 10/13/94 133783C57

WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. 6535P3

Date Work Began 09/26/94 , Ended 10/04/94

Local Permit Agency TULARE CO ENVIRONMENTAL HEALTH

Permit No. 30036 Permit Date 08/24/94

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 545938

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*

TOTAL DEPTH OF BORING 1270 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1210 (Feet)

WELL OWNER

Name CORCPORK COMPANY

Mailing Address 3922 AVENUE 120

CORCORAN (CITY) CA (STATE) 93212 (ZIP)

WELL LOCATION

Address SAME AS PAGE ONE

City

County TULARE

APN Book 291 Page 060 Parcel 19001

or Township 22 S Range 23 E Section 16

or Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING

WATER SUPPLY

___ Domestic

___ Public

X Irrigation

___ Industrial

___ "TEST WELL"

___ CATHODIC PROTECTION

___ OTHER (Specify)

DRILLING METHOD ROTARY FLUID MUD

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___

ESTIMATED YIELD* ___ (GPM) & TEST TYPE ___

TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)

* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL/GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
970	1000	26"		X			DBL MILLSLOT	12-3/4	.312	0.050
1000	1020	26"					COMPRESSON		SECTION	
1020	1050	26"		X			DBL MILLSLOT	12-3/4	.312	0.050
1050	1060	26"	X				ASTM-135	12-3/4	.312	
1060	1080	26"		X			DBL MILLSLOT	12-3/4	.312	0.050
1080	1090	26"	X				ASTM-135	12-3/4	.312	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME EATON DRILLING COMPANY, INC. (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 20 W. Kentucky Ave. CITY Woodland STATE CA ZIP 95695

Signed ___ (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED 10/13/94

C-57 LICENSE NUMBER 132782C57

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. 6535P4

Date Work Began _____, Ended _____

Local Permit Agency TULARE CO ENVIORNMENTAL HEALTH

Permit No. 30036 Permit Date 08/24/94

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 545939

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*

TOTAL DEPTH OF BORING 1270 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1210 (Feet)

WELL OWNER

Name CORCPORK COMPANY

Mailing Address 3922 AVENUE 120

CORCORAN CA 93212

CITY STATE ZIP

WELL LOCATION

Address SAME AS PAGE ONE

City _____

County TULARE

APN Book 291 Page 060 Parcel 19001

or Township 22 S Range 23 E Section 16

or Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING

WATER SUPPLY

___ Domestic

___ Public

X Irrigation

___ Industrial

___ "TEST WELL"

___ CATHODIC PROTECTION

___ OTHER (Specify)

DRILLING METHOD ROTARY FLUID MUD

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____

ESTIMATED YIELD* _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL/GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
1090	1140	26"		X			DBL MILLSLOT	12-3/4	.312	0.050
1140	1150	26"	X				ASTM-135	12-3/4	.312	
1150	1210	26"		X			DBL MILLSLOT	12-3/4	.312	0.050

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE: CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME EATON DRILLING COMPANY, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

20 W. Kentucky Ave. Woodland CA 95695

ADDRESS CITY STATE ZIP

Signed _____ 10/13/94 133783C57

WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

23/26-1J1

9-063
(December 1949)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

(Conflict in Hacked Sheet)

No. 23/26-1J1

Other Nos. Maze #1

WELL LOG

State California County Tulare Subarea Ducor-Famoso

Owner Maze T.D. = 1913 E-log
T.D. = 1830 completed

Location 0.49 miles N of sec. line (± Ave 88) + 50 ft. W of Rd. 208

Drilled by Hylton Drilling Co. Address 17th & I st., Bakersfield

Date 12-6-56 Casing diam. _____ Land-surf. alt. 410

Source of data Examination of dry rotary samples - Partial log

(Enter type of well, perforations, yield, and drawdown at end of log)

Correlation	Material	Thickness (feet)	Depth (feet)
1030-1110	Sand, medium to coarse	80	
1110-1230	Sand and clay, dark green	120	
1230-1270	Sand, medium to coarse, some dark green clay	40	
1270-1290	Sand, medium to coarse	20	
1290-1390	Clay, sandy, dark greenish	100	
1390-1430	Sand, fine to coarse	40	
1430-1450	Clay, dark green	20	
1470-1490	Sand, medium to coarse	20	
1490-1510	Clay, dark green	20	
1510-1630	Clay, sandy, olive green	120	
1630-1650	Sand, clayey, to coarse	20	
1650-1690	Clay, sandy, dark green	40	
1670-1700	Sand, clayey, to coarse	10	
1700-1780	Gravel, 2-8mm with some dark green clay and	80	
1780-1820	Gravel 2-8mm & dark green clay	40	
1820-1840	Gravel 2-8mm with some dark green clay and	20	
1840-1900	Gravel 2-8mm & dark green clay	60	

Record by George L. Hilton Date 12-6-56 Sheet 1 of 1

U. S. GOVERNMENT PRINTING OFFICE 16—61587-1

23/26-1J1

23/26-1J1

23/26-1J1 Maze (Compo, S.A.) #1 12-14-56
1830 ft pipe, perf 1310-1830, Schlumber-
ger ran. to 2100+
3 Mi W Terrabella 1/2 mi S on 208.

E-log completed

0-20 Surf fm
20-46 Sd & Gravel
46-84 Sdy brn clay
84-290 Sdy lam clay w/thin gyp sd
290-314 Tough sdy brown clay
314-378 Sdy lam clay w/thin gyp sd
378-390 Gyp sd
390-620 Sdy lam clay w/thin sd
620-975 Sdy blue clay w/thin sd
975-1015 Sandy gyp blue clay & shale
1015-1127 Hard blue clay w/thin gyp sd
1127-1350 Hard salty clay
1350-1830 Sdy blue clay w/thin gyp sd

RECORD BY Richard A. Nelson DATE 12-6-56 SHEET 1 OF 1

U. S. GOVERNMENT PRINTING OFFICE 16—61587-1

ORIGINAL

File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

No. 085678

State Well No. 22/27-16

Other Well No.

Notice of Intent No.

Local Permit No. or Date

(1) OWNER: Name Buttes Farmland Development
Address P. O. Box 1206
City Delano, CA Zip 93215

(2) LOCATION OF WELL (See instructions):
County Tulare Owner's Well Number
Well address if different from above
Township 22 Range 27 Section 16
Distance from cities, roads, railroads, fences, etc. 3/8 mile East of Road 224 on South side of Ave. 128.

Ave 128

Rd 224 ← 3/8 mi → (X)

WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☒
Industrial ☐
Test Well ☐
Stock ☐
Municipal ☐
Other ☐

(5) EQUIPMENT:
Rotary ☒ Reverse ☐
Cable ☐ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☒ No ☐ Size 1/4"
Diameter of bore 27-1/2"
Packed from 0 to 1240 ft.

(7) CASING INSTALLED:
Steel ☒ Plastic ☐ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
0	1240	14"	1/4"

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Slot size
800'	1240'	.125x 2-1/2"

(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 Unknown ft.
Standing level after well completion ft.

(11) WELL TESTS:
Was well test made? Yes ☒ No ☐ If yes, by whom?
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test ft. At end of test ft
Discharge gal/min after hours Water temperature
Chemical analysis made? Yes ☐ No ☒ If yes, by whom?
Was electric log made? Yes ☒ No ☐ If yes, attach copy to this report

(12) WELL LOG: Total depth 1240 ft. Depth of completed well 1240 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	90	Sand
90	94	Gravel
94	237	Gravel
237	277	Gravel
277	338	Clay w/Sand Streaks
338	399	Clay w/Gravel Streaks
399	522	Clay w/Sand Streaks
522	590	Blue Clay
590	700	Blue Clay
700	770	Clay
770	936	Sandy Clay
936	1088	Sand w/Clay Streaks
1088	1166	Sandy Clay
1166	1186	Coarse Sand & Clay
1186	1240	Sand w/Shale Streaks

OUTSIDE CORC. CLAY AREA

Work started 11-5- 1979 Completed 11-30-1979

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 Whitten Pumps, Inc. (Person, firm, or corporation) (Typed or printed)
Address Rt. 1 Box 1101
City Delano, CA Zip 93215
License No. 148282 Date of this report 3-24-80

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California
Well Completion Report

Refer to Instruction Pamphlet

No. e0094537

Page 1 of 4

Owner's Well Number #2

Date Work Began 03/28/2009 Date Work Ended 5/20/2009

Local Permit Agency Tulare County Environmental Health Services

Permit Number 09-138 Permit Date 3/16/09

DWR Use Only – Do Not Fill In

State Well Number/Site Number: 22S/26E-24

Latitude N Longitude W

APN/TRS/Other

Geologic Log

Orientation ◉ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Reverse Rotary Drilling Fluid Polybore

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
40	110	Sand Gravel
110	150	Sand
150	190	Sand Gravel Clay
190	240	Sand Clay
240	290	Sand
290	360	Sand Clay
360	400	Clay
400	1,120	Sand Clay
1120	1,270	Clay

Total Depth of Boring 1270 Feet

Total Depth of Completed Well 1240 Feet

Well Owner

Name Gill & Sons Farm

Mailing Address 16964 Ave 32

City Delano State CA Zip 93292

Well Location

Address 1/4 Mile North of Ave 112 / 50' West of Rd. 208

City Pixley County Tulare

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

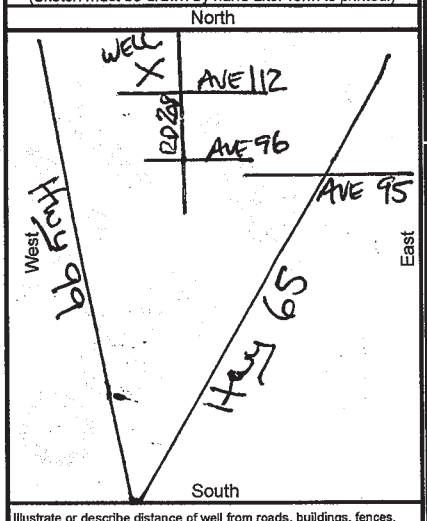
Datum ___ Decimal Lat. ___ Decimal Long. ___

APN Book 302 Page 280 Parcel 013

Township 22S Range 26E Section 24 S

Location Sketch

(Sketch must be drawn by hand after form is printed.)



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

◉ New Well
○ Modification/Repair
○ Deepen
○ Other ___
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

◉ Water Supply
☐ Domestic ☐ Public
☑ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
○ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other ___

Water Level and Yield of Completed Well

Depth to first water 270 (Feet below surface)

Depth to Static Water Level 270 (Feet) Date Measured 05/06/2009

Estimated Yield * 2,600 (GPM) Test Type Constant Rate

Test Length 12.0 (Hours) Total Drawdown 190 (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	40	42	Conductor	A53 Grade B	.375	30		
0	670	26	Blank	A53 Grade B	.312	16		
670	700	26	Ful Flo	Ful Flo A139	.312	16	Louver	0.080
700	800	26	Standard Flo	SF A139	.312	16	Louver	
800	820	26	Ful Flo	Ful flo A139	.312	16	Louver	0.080
820	840	26	Standard Flo	SF A139	.312	16	Louver	

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	40	Cement	Annular Seal
0	1,270	Filter Pack	4x16 SRI

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other ___

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Bakersfield Well & Pump Co.
Person, Firm or Corporation

7212 Fruitvale Ave. Bakersfield CA 93308
Address City State Zip

Signed [signature] 7/13/2009 440537
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0094537

Page 2 of 4

Owner's Well Number #2

Date Work Began 03/28/2009 Date Work Ended 5/20/2009

Local Permit Agency Tulare County Environmental Health Services

Permit Number 09-138 Permit Date 3/16/09

DWR Use Only – Do Not Fill In

22S/26E-24

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation ◉ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Reverse Rotary Drilling Fluid Polybore

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
40	110	Sand Gravel
110	150	Sand
150	190	Sand Gravel Clay
190	240	Sand Clay
240	290	Sand
290	360	Sand Clay
360	400	Clay
400	1,120	Sand Clay
1120	1,270	Clay

Total Depth of Boring 1270 Feet

Total Depth of Completed Well 1240 Feet

Well Owner

Name Gill & Sons Farm

Mailing Address 16964 Ave 32

City Delano State CA Zip 93292

Well Location

Address 1/4 Mile North of Ave 112 / 50' West of Rd. 208

City Pixley County Tulare

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

Datum ___ Decimal Lat. ___ Decimal Long. ___

APN Book 302 Page 280 Parcel 013

Township 22S Range 26E Section 24 S

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

◉ New Well

○ Modification/Repair

○ Deepen

○ Other ___

○ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

◉ Water Supply

☐ Domestic ☐ Public

☑ Irrigation ☐ Industrial

○ Cathodic Protection

○ Dewatering

○ Heat Exchange

○ Injection

○ Monitoring

○ Remediation

○ Sparging

○ Test Well

○ Vapor Extraction

○ Other ___

Water Level and Yield of Completed Well

Depth to first water 270 (Feet below surface)

Depth to Static Water Level 270 (Feet) Date Measured 05/06/2009

Estimated Yield * 2,600 (GPM) Test Type Constant Rate

Test Length 12.0 (Hours) Total Drawdown 190 (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
840	900	26	Ful Flo	Ful Flo A139	.312	16	Louver	0.080
900	910	26	Standard Flo	SF A139	.312	16	Louver	
910	930	26	Ful Flo	Ful Flo A139	.312	16	Louver	0.080
930	950	26	Standard Flo	SF A139	.312	16	Louver	
950	990	26	Ful Flo	Ful flo A139	.312	16	Louver	0.080
990	1,030	26	Standard Flo	SF A139	.312	16	Louver	

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	40	Cement	Annular Seal
0	1,270	Filter Pack	4x16 SRI

Attachments

☐ Geologic Log

☐ Well Construction Diagram

☐ Geophysical Log(s)

☐ Soil/Water Chemical Analyses

☐ Other ___

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Bakersfield Well & Pump Co.
Person, Firm or Corporation

7212 Fruitvale Ave. Bakersfield CA 93308
Address City State Zip

Signed [signature] 7/13/2009 440537
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

3/6

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File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0094537

Page 3 of 4

Owner's Well Number #2

Date Work Began 03/28/2009 Date Work Ended 5/20/2009

Local Permit Agency Tulare County Environmental Health Services

Permit Number 09-138 Permit Date 3/16/09

DWR Use Only – Do Not Fill In

22S/26E-24

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation ◉ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Reverse Rotary Drilling Fluid Polybore

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
40	110	Sand Gravel
110	150	Sand
150	190	Sand Gravel Clay
190	240	Sand Clay
240	290	Sand
290	360	Sand Clay
360	400	Clay
400	1,120	Sand Clay
1120	1,270	Clay

Total Depth of Boring 1270 Feet

Total Depth of Completed Well 1240 Feet

Well Owner

Name Gill & Sons Farm

Mailing Address 16964 Ave 32

City Delano State CA Zip 93292

Well Location

Address 1/4 Mile North of Ave 112 / 50' West of Rd. 208

City Pixley County Tulare

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

Datum ___ Decimal Lat. ___ Decimal Long. ___

APN Book 302 Page 280 Parcel 013

Township 22S Range 26E Section 24 S

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

◉ New Well

○ Modification/Repair

○ Deepen

○ Other ___

○ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

◉ Water Supply

☐ Domestic ☐ Public

☑ Irrigation ☐ Industrial

○ Cathodic Protection

○ Dewatering

○ Heat Exchange

○ Injection

○ Monitoring

○ Remediation

○ Sparging

○ Test Well

○ Vapor Extraction

○ Other ___

Water Level and Yield of Completed Well

Depth to first water 270 (Feet below surface)

Depth to Static Water Level 270 (Feet) Date Measured 05/06/2009

Estimated Yield * 2,600 (GPM) Test Type Constant Rate

Test Length 12.0 (Hours) Total Drawdown 190 (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
1,030	1,060	26	Ful Flo	Ful Flo A139	.312	16	Louver	0.080
1,060	1,110	26	Standard Flo	SF A139	.312	16	Louver	
1,110	1,130	26	Ful Flo	Ful Flo A139	.312	16	Louver	0.080
1,130	1,145	26	Standard Flo	SF A139	.312	16	Louver	
1,145	1,170	26	Ful Flo	Ful flo A139	.312	16	Louver	0.080
1,170	1,200	26	Standard Flo	SF A139	.312	16	Louver	

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	40	Cement	Annular Seal
0	1,270	Filter Pack	4x16 SRI

Attachments

☐ Geologic Log

☐ Well Construction Diagram

☐ Geophysical Log(s)

☐ Soil/Water Chemical Analyses

☐ Other ___

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Bakersfield Well & Pump Co.
Person, Firm or Corporation

7212 Fruitvale Ave. Bakersfield CA 93308
Address City State Zip

Signed [signature] 7/13/2009 440537
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

4/5

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File Original with DWR

Page 4 of 4

Owner's Well Number #2

Date Work Began 03/28/2009 Date Work Ended 5/20/2009

Local Permit Agency Tulare County Environmental Health Services

Permit Number 09-138 Permit Date 3/16/09

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0094537

DWR Use Only – Do Not Fill In

22S/26E-24

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation ◉ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Reverse Rotary Drilling Fluid Polybore

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
40	110	Sand Gravel
110	150	Sand
150	190	Sand Gravel Clay
190	240	Sand Clay
240	290	Sand
290	360	Sand Clay
360	400	Clay
400	1,120	Sand Clay
1120	1,270	Clay

Total Depth of Boring 1270 Feet

Total Depth of Completed Well 1240 Feet

Well Owner

Name Gill & Sons Farm

Mailing Address 16964 Ave 32

City Delano State CA Zip 93292

Well Location

Address 1/4 Mile North of Ave 112 / 50' West of Rd. 208

City Pixley County Tulare

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

Datum ___ Decimal Lat. ___ Decimal Long. ___

APN Book 302 Page 280 Parcel 013

Township 22S Range 26E Section 24 S

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

◉ New Well
○ Modification/Repair
○ Deepen
○ Other
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

◉ Water Supply
☐ Domestic ☐ Public
☑ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
○ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well

Depth to first water 270 (Feet below surface)

Depth to Static Water Level 270 (Feet) Date Measured 05/06/2009

Estimated Yield * 2,600 (GPM) Test Type Constant Rate

Test Length 12.0 (Hours) Total Drawdown 190 (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
1,200	1,220	26	Ful Flo	Ful Flo A139	.312	16	Louver	
1,220	1,240	26	Blank	A53 Grade B	.312	16		

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	40	Cement	Annular Seal
0	1,270	Filter Pack	4x16 SRI

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Bakersfield Well & Pump Co.
Person, Firm or Corporation

7212 Fruitvale Ave Bakersfield CA 93308
Address City State Zip

Signed [signature] 7/13/2009 440537
(C-57) Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

24/27-34

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No.____
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA

Do Not Fill In
No 118749
State Well No. 24/27E-34
Other Well No.____

(1) OWNER:

Name Buena Vista Orchards
Address P.O. Box 1458
McFarland, Calif. 93250

(2) LOCATION OF WELL:

County Kern Owner's number, if any—
R. F. D. or Street No. ¼ mile East of Hwy 65 and ¼ mile North of Ave. 2

(3) TYPE OF WORK *(check)*:

New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE *(check)*:

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:

SINGLE ☒ DOUBLE ☐
From 0 ft. to 1750 ft. 14" diam. ¼" Gage or Wall
" " " " " "
" " " " " "
" " " " " "
" " " " " "
Type and size of shoe or well ring
Describe joint collar w/ fillet weld

If gravel packed
Diameter of Bore 25½" from ft. to ft.
" " " "
top to bottom
" " " "
" " " "
Size of gravel: ¼"

(7) PERFORATIONS:

Type of perforator used machine
Size of perforations .125 x 2 in., length, by 6 cc in.
From 600 ft. to 1750 ft. 2 Perf. per row 14 Rows per ft.
" " " " " " " " " " " " " " "
" " " " " " " " " " " " " " "
" " " " " " " " " " " " " " "
" " " " " " " " " " " " " " "

(8) CONSTRUCTION:

Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.
Were any strata sealed against pollution? ☐ Yes ☒ No If yes, note depth of strata
From ft. to ft.
" " "
Method of Sealing

(9) WATER LEVELS:

Depth at which water was first found unknown ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:

Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. draw down after hrs.
Temperature of water Was a chemical analysis made? ☐ Yes ☒ No
Was electric log made of well? ☒ Yes ☐ No

(11) WELL LOG:

Total depth 1750 ft. Depth of completed well 1750 ft.
Formation: *Describe by color, character, size of material, and structure.*

0	ft. to	9	ft. top soil
9	"	127	" sand
127	"	409	" sandy clay
409	"	564	" clay
564	"	740	" sandy clay
740	"	743	" sand
743	"	881	" blue clay
881	"	943	" sandy clay
943	"	1066	" hard shale
1066	"	1220	" sandy clay
1220	"	1370	" blue shale
1370	"	1441	" hard blue shale
1441	"	1565	" hard shale
1565	"	1750	" shale w/ sand streaks

CONFIDENTIAL
Water Code Sec. 13752

Work started 12-28-68 19 , Completed 1-15-68 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps, Inc.
(Person, firm, or corporation) *(Typed or printed)*
Address 1744 Inyo St.
Delano, Calif. 93215
[SIGNED] Donald Ryan
Well Driller
License No. 148282 Dated 10-23-68, 19

ORIGINAL

File Original, Duplicate and Triplicate with the

REGIONAL WATER POLLUTION

CONTROL BOARD No. 5

(Insert appropriate number)

24/27-20

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

LOCATION NOT CHECKED

Do Not Fill In

No 60087

State Well No.

Other Well No. 24S/27E-20

(1) OWNER:

Name Lanza Vineyards

Address P.O. Box 397

Delano, Calif.

(2) LOCATION OF WELL:

County Tulare Owner's number, if any—

R. F. D. or Street No.

1/4 mile North of Ave. 16

3/8 mile East of Rd. 216

(3) TYPE OF WORK (*check*):

New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (*check*):

Domestic [ ] Industrial [ ] Municipal [ ]

Irrigation [X] Test Well [ ] Other [ ]

(5) EQUIPMENT:

Rotary [X]

Cable [ ]

Dug Well [ ]

(6) CASING INSTALLED:

SINGLE [X] DOUBLE [ ]

From ft.	to ft.	Diam.	Gage or Wall
1,824 ft.		14"	¼ single

Type and size of shoe or well ring

Describe joint Butt welded

If gravel packed

Diameter of Bore	from ft.	to ft.
26	3/4"	
Top to bottom		

Size of gravel: 3/8"

(7) PERFORATIONS:

Type of perforator used Machine

Size of perforations 1/8 X 1cc in., length, by in.

From ft.	to ft.	Perf. per row	Rows per ft.
		21	3
648 ft.	1824 ft.		

(8) CONSTRUCTION:

Was a surface sanitary seal provided? [ ] Yes [X] No To what depth ft.

Were any strata sealed against pollution? [ ] Yes [X] No If yes, note depth of strata

From ft.	to ft.

Method of Sealing

(9) WATER LEVELS:

Depth at which water was first found not known ft.

Standing level before perforating ft.

Standing level after perforating ft.

(10) WELL TESTS:

Was a pump test made? [ ] Yes [X] No If yes, by whom?

Yield: gal./min. with ft. draw down after hrs.

Temperature of water Was a chemical analysis made? [ ] Yes [X] No

Was electric log made of well? [ ] Yes [X] No

(11) WELL LOG:

Total depth 1824 ft. Depth of completed well 1824 ft.

Formation: *Describe by color, character, size of material, and structure.*

0 ft. to	86 ft.	Sandy Top Soil
86 "	196 "	Sandy Clay
196 "	200 "	Hard Sand
200 "	285 "	Sandy Clay
285 "	302 "	Hard Sand
302 "	460 "	Sandy Clay
460 "	500 "	Sandy Clay
500 "	540 "	Hard Clay
540 "	543 "	Sand
543 "	620 "	Hard Clay
620 "	640 "	Hard Shale
640 "	723 "	Hard Clay
723 "	763 "	Shale
763 "	840 "	Blue Clay
840 "	843 "	Sand
843 "	1042 "	Blue Clay
1042 "	1105 "	Shale
1105 "	1125 "	Soft Clay
1125 "	1140 "	Shale
1140 "	1230 "	Blue Clay
1230 "	1233 "	Sand
1233 "	1275 "	Blue Shale
1275 "	1295 "	Hard Shale
1295 "	1450 "	Clay
1450 "	1452 "	Hard Shale
1452 "	1481 "	Clay
1481 "	1515 "	Hard Shale
1515 "	1526 "	Clay
1526 "	1570 "	Hard Shale
1570 "	1574 "	Sand
1574 "	1616 "	Hard Shale
1616 "	1626 "	Sand
1626 "	1636 "	Shale
1636 "	1691 "	Clay & Shale
1691 "	1739 "	Sand
1739 "	1824 "	Hard Shale

CONFIDENTIAL
Section 7076.1, Water Code

Work started 12/26/59 19 . Completed 1/21/60 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps, Inc.
(Person, firm, or corporation) (Typed or printed)

Address 1744 High Street

Delano, Calif.

[SIGNED] Donald E. Egan
Well Driller

License No. 148282 Dated 7-15-, 1960

87025 6-57 30M QUIN △ SPO

DWR 188 (REV. 3-54)

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e059519

Page 1 of 2

Owner's Well Number

Date Work Began 07/12/2007 Date Work Ended 9/25/2007

Local Permit Agency Tulare County Environmental Health Department

Permit Number 07-0234 Permit Date 5/23/07

DWR Use Only – Do Not Fill In

23S/27E-34

State Well Number/Site Number

N / W

Latitude / Longitude

APN/TRS/Other

Geologic Log

Orientation ◉ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Direct Rotary Drilling Fluid Bentonite mud

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
0	32	Drill conductor
32	115	Fine to coarse sand
115	125	80% fine to coarse sand, 20% clay
125	135	Coarse sand with some clay
135	155	Fine to coarse sand
155	186	Fine to coarse sand with a little clay
186	245	5% fine to medium sand, 95% brown clay
245	330	95% brown and white clay, 5% medium sand
330	345	60% brown clay, 40% fine to medium sand
345	350	Brown clay
350	370	70% brown clay, 30%fine to medium sand
370	470	80% brown clay, 20% fine to medium sand
470	483	60% white and brown clay, 40% fine to medium sand
483	493	90% white and brown clay, 10% sand
493	503	80% fine to medium sand, 20% clay
503	535	95% blue & brown clay, 5% fine sand
535	567	Blue and brown clay, with some shale and fine sand
567	785	80% blue and brown clay, 20% sand
785	816	Hard blue and brown clay with some sand
816	878	90% blue-green shale and fine sand
878	888	80% blue clay and shale with some fine sand
888	898	90% clay and hard shale with fine to medium sand
898	970	Clay and hard shale
970	1,006	Clay and hard shale with some fine sand
1006	1,038	80% blue clay with shale and fine sand
1038	1,058	70% blue clay and shale with fine to medium sand
1058	1,100	80% blue clay and shale with fine sand
1100	1,110	60% clay and shale, 40% fine to coarse sand
1110	1,130	Blue clay and shale with some fine sand

Total Depth of Boring 1832 Feet

Total Depth of Completed Well 1800 Feet

Well Owner

Name JAY, LLC

Mailing Address 5060 California Avenue, Suite 910

City Bakersfield State CA Zip 93309

Well Location

Address Hwy 56 & 240th, 1 mile SW

City Ducor County Tulare

Latitude 35 Deg. 52 Min. 51 Sec. N Longitude 119 Deg. 2 Min. 37 Sec. W

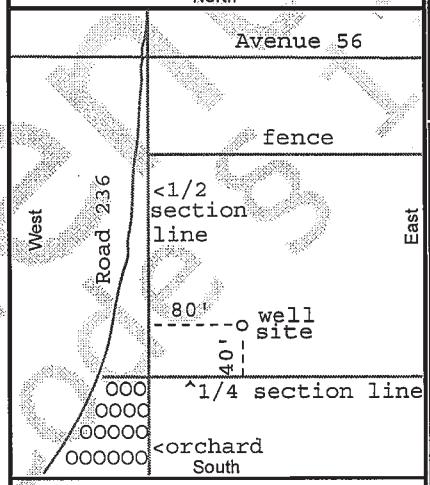
Datum WGS84 Decimal Lat. Decimal Long.

APN Book 321 Page 160 Parcel 009

Township 23S Range 27E Section 34

Location Sketch

(Sketch must be drawn by hand after form is printed.)



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

◉ New Well
○ Modification/Repair
○ Deepen
○ Other
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

◉ Water Supply
☐ Domestic ☐ Public
☑ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
○ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well

Depth to first water 511 (Feet below surface)

Depth to Static Water Level 511 (Feet) Date Measured 09/25/2007

Estimated Yield * 2,000 (GPM) Test Type Constant Rate

Test Length 8.0 (Hours) Total Drawdown 26 (Feet)

*May not be representative of a well's long term yield. PL 537

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	20	36	Conductor	A53B	.375	30		
0	160	26	Solid	A53B	.375	16		
160	760	26	Solid	A53B	.312	16		
760	880	26	Perforated	A53B	.312	16	Millslot	0.070
880	1,000	26	Perforated	A53B	.312	16	Millslot	0.070
1,000	1,260	26	Perforated	A53B	.312	16	Millslot	0.040

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	150	Cement	10-sack
150	1,832	Filter Pack	1/4 x 10 Gravel

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Rottman Drilling Co.
Person, Firm or Corporation

46471 N. Division Street Lancaster CA 93535-5906
Address City State Zip

Signed Matthew W Rottman 10/26/07
C-57 Licensed Water Well Contractor Date Signed

316599
C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

2/2

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e059520

Page 2 of 2

Owner's Well Number

Date Work Began 07/12/2007 Date Work Ended 9/25/2007

Local Permit Agency Tulare County Environmental Health Department

Permit Number 07-0234 Permit Date 5/23/07

DWR Use Only – Do Not Fill In

State Well Number/Site Number: 23S/27E-34

Latitude N Longitude W

APN/TRS/Other

Geologic Log

Orientation ◉ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Direct Rotary Drilling Fluid Bentonite mud

Depth from Surface Feet	to Feet	Description (Describe material, grain size, color, etc)
1,130	1,200	Blue clay and shale with some fine sand
1,200	1,210	Blue clay, 30% fine to medium sand
1210	1,240	blue clay, shale, and some fine sand
1240	1,290	Fie to medium sand with some clay
1290	1,330	Blue clay with some sand
1330	1,400	Grey-blue clay and shale
1400	1,440	Fine to coarse sand with some clay
1440	1,452	70% clay with fine to medium sand
1452	1,534	Fine to coarse sand, 30%clay
1534	1,630	Fine to coarse sand, 30%clay with some silt
1630	1,693	Fine to coarse sand with some clay and silt
1693	1,724	Fine sand with some silty clay
1724	1,755	Fine to coarse sand with silty blue-green clay
1755	1,774	Blue-green silty clay with shale and fine sand
1774	1,786	Coarse sand with hard silty clay
1786	1,817	Hard blue clay with a little sand or shale
1817	1,832	Hard blue clay

Total Depth of Boring 1832 Feet

Total Depth of Completed Well 1800 Feet

Well Owner

Name JAY, LLC

Mailing Address 5060 California Avenue, Suite 910

City Bakersfield State CA Zip 93309

Well Location

Address Hwy 56 & 240th, 1 mile SW

City Ducor County Tulare

Latitude 35 Deg. 52 Min. 51 Sec. N Longitude 119 Deg. 2 Min. 37 Sec. W

Datum WGS84 Decimal Lat. Decimal Long.

APN Book 321 Page 160 Parcel 009

Township 23S Range 27E Section 34

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West SEE PAGE 1 East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

◉ New Well
○ Modification/Repair
○ Deepen
○ Other
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

◉ Water Supply
☐ Domestic ☐ Public
☑ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
○ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well

Depth to first water 511 (Feet below surface)

Depth to Static Water Level 511 (Feet) Date Measured 09/25/2007

Estimated Yield * 2,000 (GPM) Test Type Constant Rate

Test Length 8.0 (Hours) Total Drawdown 26 (Feet)

*May not be representative of a well's long term yield. PL 537

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
1,260	1,500	26	Perforated	A53B	.312	16	Millslot	0.080
1,500	1,740	26	Perforated	A53B	.312	16	Millslot	0.070

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	150	Cement	10-sack
150	1,832	Filter Pack	1/4 x 10 Gravel

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Rottman Drilling Co.
Person, Firm or Corporation

46471 N. Division Street Lancaster CA 93535-5906
Address City State Zip

Signed Matthew W Rottman 10/26/07 316599
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 0925804

DWR USE ONLY — DO NOT FILL IN
23S/27E-27
STATE WELL NO./STATION NO.
LATITUDE | LONGITUDE
APN/TRS/OTHER

Owner's Well No. North
Date Work Began 6-4-04, Ended 8-20-04
Local Permit Agency Tulare County Environmental Health
Permit No. 5400542 Permit Date 5-19-04

GEOLOGIC LOG

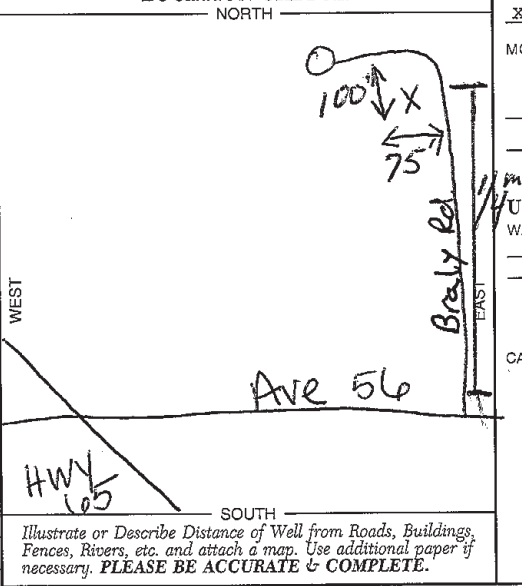
ORIENTATION (✓) x VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Reverse Circulation FLUID Poly Bore

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	60	Clay & Gravel
60	200	Sand & Clay
200	240	Sand & Little Clay
240	370	Sand & Grey Clay
370	380	Clay & Little Sand
380	390	Green Clay & Sand
390	400	Clay & Little Sand
400	410	Sand & Clay
410	440	Green Clay & Sand
440	540	Green Clay & Fine Sand
540	550	Green Clay Sand & Little Rock
550	930	Sand & Grey Clay
930	940	Grey Clay
940	960	Fine Sand & Grey Clay
960	1000	Sand Grey Clay & Shell
1000	1060	Sand & Grey Clay
1060	1090	Sand Grey Clay & Little Rock
1090	1150	Sand & Grey Clay
1150	1230	Sand Shell & Grey Clay
1230	1270	Shell & Grey Clay
1270	1290	Fine Sand & Shell , Grey Clay
1290	1380	Fine Sand & Grey Clay
1380	1430	Grey Clay
1430	1460	Fine Sand & Grey Clay
1460	1500	Grey Clay

TOTAL DEPTH OF BORING 1425 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1405 (Feet)

WELL OWNER
Name Ducor Community Services Dist
Mailing Address P.O.Box 137
Ducor CA 93218
CITY STATE ZIP

WELL LOCATION
Address ¼ Mile N. of Ave 56 75' West Brady
City Ducor
County Tulare
APN Book 321 Page 080 Parcel 025
Township 23 Range 27E Section 27
Lat ___ DEG. ___ MIN. ___ SEC. N
Long ___ DEG. ___ MIN. ___ SEC. W

LOCATION SKETCH


Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)
x NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

USES (✓)
WATER SUPPLY
___ Domestic x Public
___ Irrigation ___ Industrial
___ MONITORING
___ TEST WELL
___ CATHODIC PROTECTION
___ HEAT EXCHANGE
___ DIRECT PUSH
___ INJECTION
___ VAPOR EXTRACTION
___ SPARGING
___ REMEDIATION
___ OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER 502 (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 502 (Ft.) & DATE MEASURED 7-26-04
ESTIMATED YIELD * 550 (GPM) & TEST TYPE Constant/ Flowmeter
TEST LENGTH 24 (Hrs.) TOTAL DRAWDOWN 97 (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	42			x		ASTM 139	30	5/16	
+2	1015	26	x				ASTM A 606	14	5/16	
1015	1035	26	x				ASTM A 606	14	5/16	Comp Section
1035	1385	26		x			A 606 Ful Flo	14	5/16	.060
1385	1405	26	x				ASTM A 606	14	5/16	
+2	1010	26				x	A53 Grade B	3	Sch.40	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	995	x			
995	1000		x		
1000	1425				6x16
					CCSI

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Bakersfield Well & Pump Co.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
7212 Fruitvale Ave Bakersfield CA 93308
ADDRESS CITY STATE ZIP
Signed ___ 11-11-04 440537
C-57 LICENSED WATER WELL CONTRACTOR DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 05-03 IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM OSP 03 78836

23/27-19R1

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No.
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

LOCATION NOT CHECKED

Do Not Fill In

Nº 14164

State Well No. 19R1

Other Well No. ~~23S/27E-34~~

(1) OWNER:

Name Guimarra Vineyards Co.
Address P. O. Box 1653
Bakersfield, Calif.

(2) LOCATION OF WELL:

County Tulare Owner's number, if any— 5
R. F. D. or Street No. E. End of Road 64

(3) TYPE OF WORK (check):

New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [X] Test Well [ ] Other [ ]

(5) EQUIPMENT:

Rotary [XX]
Cable [ ]
Dug Well [ ]

(6) CASING INSTALLED:

SINGLE [X] DOUBLE [ ]

From ft.	to ft.	Diam.	Gage or Wall
0	795	16"	5/16"
~~795~~			
780	1610	14"	1/4"

If gravel packed

Diameter of Bore	from ft.	to ft.
27½"	0	1610

Type and size of shoe or well ring
Size of gravel: 1/2"
Describe joint

(7) PERFORATIONS:

Type of perforator used Machine
Size of perforations 125 mesh in., length, by 2" in.

From ft.	to ft.	Perf. per row	Rows per ft.
645	1610	14 rows on 6" centers	

(8) CONSTRUCTION:

Was a surface sanitary seal provided? [ ] Yes [ ] No To what depth ft.
Were any strata sealed against pollution? [X] Yes [ ] No If yes, note depth of strata
From 1610 ft. to 1817 ft.
Method of Sealing cemented

(9) WATER LEVELS:

Depth at which water was first found ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:

Was a pump test made? [X] Yes [ ] No If yes, by whom? S.A.Camp Co.
Yield: 3500 gal./min. with 37 ft. draw down after 6 hrs.
Temperature of water Was a chemical analysis made? [ ] Yes [ ] No
Was electric log made of well? [X] Yes [ ] No

(11) WELL LOG:

Total depth 1817' ft. Depth of completed well 1610 ft.
Formation: Describe by color, character, size of material, and structure.

From ft.	to ft.	Formation
0	15	Surface
15	130	Sand with strs of clay
130	360	Sandy brown clay
360	460	Sandy br. clay w/ stks of sand
460	696	Sandy blue " " " "
696	800	Sandy clay
800	845	Hard Sand
845	900	Hard Sandy Blue Clay
900	960	Sand w/ thin streaks blue clay
960	1127	Blue shale
1127	1220	Hard blue shale w/ stks hard sand
1220	1517	Blue clay w/ streaks of sand
1517	1817	Sand w/ streaks of blue clay and hard shale

CONFIDENTIAL
Section 7076.1, Water Code

Work started 6-5-57 19 , Completed 6-21-57 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME HYLTON DRILLING CO.
(Person, firm, or corporation) (Typed or printed)
Address 716 Eye Street
Bakersfield, Calif.

[SIGNED] Reese Hylton
Well Driller

License No. 111580 Dated June 25, 1957

85689 2-54 50M QUIN SPO

DWR FORM NO. 246 (REV. 3-54)

ORIGINAL
File with DWR

Page 1 of 2

Owner's Well No. _____

Date Work Began 5-19-08, Ended 6-30-08

Local Permit Agency TULARE COUNTY

Permit No. 08-0200 Permit Date 4-23-08

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 0942277

DWR USE ONLY — DO NOT FILL IN
23S/27E-07 1/2
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD ROTARY FLUID MUD

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	50	TOP SOIL
50	100	SAND
100	140	SANDY CLAY
140	150	SAND
150	180	CLAY
180	190	SAND
190	290	CLAY
290	310	SAND
310	350	SANDY CLAY
350	360	SAND
360	390	SANDY CLAY
390	410	SAND
410	490	SANDY CLAY
490	510	SAND
510	660	SANDY CLAY
660	690	SAND
690	730	SANDY CLAY
730	750	SAND
750	820	SANDY CLAY
820	830	CLAY
830	850	SAND
850	960	SANDY CLAY
960	980	SAND
980	1010	GRAVEL
1010	1050	SANDY CLAY
1050	1060	CLAY
1060	1080	SAND
1080	1090	CLAY
1090	1100	SAND
1100	1110	CLAY

TOTAL DEPTH OF BORING _____ (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

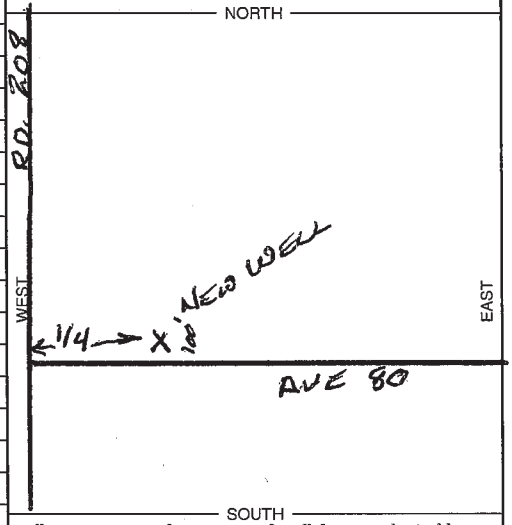
WELL OWNER

Name DOLE FRESH FRUIT CO
Mailing Address 1 DOLE AVE
City WESTLAKE VILLAGE State CA Zip 91362

WELL LOCATION

Address 1145 RD 208 100 N/O AVE 80
City TERRA BELLA
County TULARE
APN Book 320 Page 010 Parcel 013
Township 23S Range 27E Section 07
Lat ___ DEG. ___ MIN. ___ SEC. N Long ___ DEG. ___ MIN. ___ SEC. W

LOCATION SKETCH



*Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

USES (✓)

WATER SUPPLY
___ Domestic ___ Public
X Irrigation ___ Industrial
___ MONITORING
___ TEST WELL
___ CATHODIC PROTECTION
___ HEAT EXCHANGE
___ DIRECT PUSH
___ INJECTION
___ VAPOR EXTRACTION
___ SPARGING
___ REMEDIATION
___ OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 476 (Ft.) & DATE MEASURED 8-6-08
ESTIMATED YIELD * 1300 (GPM) & TEST TYPE PUMP
TEST LENGTH 16 (Hrs.) TOTAL DRAWDOWN 551 (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	40					X	A53B	33/4	.188	
0	625		X				A53B	15 1/4	.312	
625	1800			X			A53B	15 1/4	.312	.90

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	30	X			
30	1800				1/4" GRAVEL

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
X Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME WHITTEN PUMP INC. (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
502 COUNTYLINE RD DELANO CA 93215
ADDRESS CITY STATE ZIP
Signed _____ C-57 LICENSED WATER WELL CONTRACTOR
8/11/2008 DATE SIGNED
748282 C-57 LICENSE NUMBER

DWR 188 REV. 05-03

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

OSP 03 78836

ORIGINAL
File with DWR
Page 2 of 2 (CONTINUED)
Owner's Well No. ____
Date Work Began 5-19-08, Ended 6-30-08
Local Permit Agency TULARE COUNTY
Permit No. 08-0200 Permit Date ____

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 0942278

DWR USE ONLY — DO NOT FILL IN
23S/27E-07 2/2
STATE WELL NO./STATION NO.
LATITUDE | LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD ____ FLUID ____

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION (Describe material, grain size, color, etc.)
1110	1130	SAND
1130	1140	CLAY
1140	1150	SAND
1150	1170	CLAY
1170	1190	SAND
1190	1220	CLAY
1220	1250	SAND
1250	1290	SANDY CLAY
1290	1310	CLAY
1310	1330	SAND
1330	1350	CLAY
1350	1360	SAND
1360	1440	CLAY
1440	1450	SANDY CLAY
1450	1570	SAND
1570	1580	CLAY
1580	1610	SAND
1610	1670	CLAY
1670	1720	SAND
1720	1760	SANDY CLAY
1760	1800	SAND

TOTAL DEPTH OF BORING ____ (Feet)
TOTAL DEPTH OF COMPLETED WELL ____ (Feet)

WELL OWNER

Name DOLE FRESH FRUIT CO
Mailing Address ____
CITY STATE ZIP

WELL LOCATION

Address ____
City ____
County ____
APN Book ____ Page ____ Parcel ____
Township 23S Range 27E Section 07
Lat ____ N DEG. MIN. SEC. Long ____ W DEG. MIN. SEC.

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES (✓)

WATER SUPPLY
___ Domestic ___ Public
___ Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER ____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL ____ (Ft.) & DATE MEASURED ____
ESTIMATED YIELD * ____ (GPM) & TEST TYPE ____
TEST LENGTH ____ (Hrs.) TOTAL DRAWDOWN ____ (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE: CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME ____
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS ____ CITY ____ STATE ____ ZIP ____

Signed [signature] 8/11/2008
C-57 LICENSED WATER WELL CONTRACTOR | DATE SIGNED | C-57 LICENSE NUMBER

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. _____

Date Work Began 01-03-01 Ended 01-30-01

Local Permit Agency TULARE COUNTY ENVIRONMENTAL HEALTH

Permit No. _____ Permit Date 01-03-01

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 783343

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO. 23S/26E-23R1

LATITUDE _____ LONGITUDE _____

APN/TRS/OTHER _____

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD ROTARY FLUID BENTONITE MUD

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	260	SANDY CLAY
260	275	SAND
275	500	SANDY CLAY
500	515	SAND
515	570	SANDY CLAY
570	590	CLAY
590	635	SANDY CLAY
635	660	SAND
660	700	SANDY CLAY
700	720	SAND
720	770	SANDY CLAY
770	795	CLAY
795	875	SANDY CLAY
875	895	SAND
895	960	SANDY CLAY
960	995	SAND
995	1105	SANDY CLAY
1105	1120	SAND
1120	1145	CLAY
1145	1165	SAND
1165	1240	SANDY CLAY
1240	1265	CLAY
1265	1510	CLAY WITH SAND STREAKS
1510	1530	SAND
1530	1620	SANDY CLAY
1620	1645	SAND
1645	1670	SANDY CLAY
1670	1685	SAND
1685	1690	SANDY CLAY
1690	1720	SAND

TOTAL DEPTH OF BORING 1720 Feet

TOTAL DEPTH OF COMPLETED WELL 1700 Feet

WELL OWNER

Name A.L.G. ENTERPRISES

Mailing Address RT. 2, BOX 299

DELANO CA. 93215

CITY STATE ZIP

WELL LOCATION

Address 1-1/8 MILE NORTH OF AVENUE 56 AND

City 1/4 MILE WEST OF ROAD 200

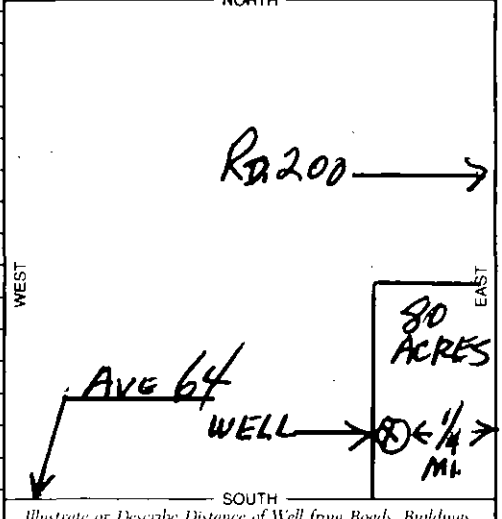
County TULARE COUNTY ENVIRONMENTAL HEALTH

APN Book 319 Page 160 Parcel 01

Township 23S Range 26E Section 23R

Latitude ___ DEG ___ MIN ___ SEC NORTH Longitude ___ DEG ___ MIN ___ SEC WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

X NEW WELL

MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY
X Domestic ___ Public
X Irrigation ___ Industrial

___ MONITORING
___ TEST WELL
___ CATHODIC PROTECTION
___ HEAT EXCHANGE
___ DIRECT PUSH
___ INJECTION
___ VAPOR EXTRACTION
___ SPARGING
___ REMEDIATION
___ OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

* *May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	600	27	X				A53B	15.37	.312	
600	1700	27		X			A53B	15.37	.312	.100X2-1/2
0	30					X	A252	3.75		

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	20	X			
20	1700				1/4" GRAVEL

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME WHITTEN PUMPS, INC. (PERSON, FIRM OR CORPORATION) (TYPED OR PRINTED)

502 COUNTY LINE RD. DELANO CA. 93215

ADDRESS CITY STATE ZIP

Signed Donald E Whitten WELL DRILLER/AUTHORIZED REPRESENTATIVE

3/9/01 DATE SIGNED

148282 C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Page 1 of 1
Owner's Well No. _____
Date Work Began 3/16/05, Ended 4/13/05
Local Permit Agency Environmental Health Services
Permit No. 23791 Permit Date 2/24/05

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 0915717

DWR USE ONLY — DO NOT FILL IN
23S/26E-11
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD _____ FLUID _____

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
50' 30"	Cond. Pipe
50 58	Clay
58 80	Sand
80 118	Clay
118 128	Sand
128 200	Clay
200 220	Sand
220 225	Clay
225 238	Sand
238 280	Clay
280 290	Sand
290 440	Sand, Clay
440 458	Sand, Rock
458 568	Sand, Clay
568 578	Sand
578 660	Clay
660 718	Sand, Rock
718 720	Clay
720 742	Sand
742 768	Clay
768 778	Sand
778 788	Clay
788 818	Sand
818 828	Clay, Sand
828 898	Sand
898 920	Clay
920 1000	Sand
1000 1069	Clay

TOTAL DEPTH OF BORING 1069 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1011 (Feet)

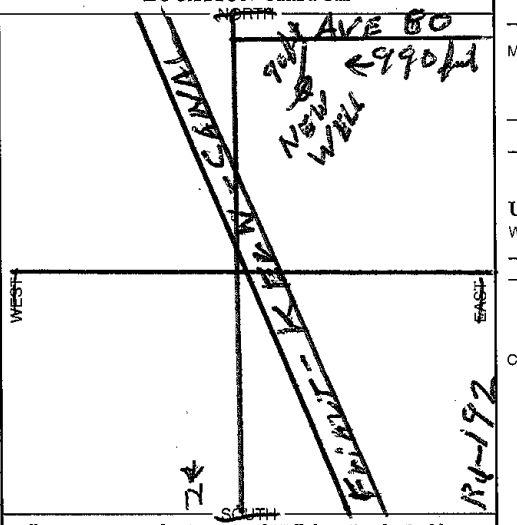
WELL OWNER

Name Road 208 Ranches
Mailing Address 20191 Ave. 128
Porterville Ca. 93257
CITY STATE ZIP

WELL LOCATION

Address Ave. 56 E. to 192, 192 N. to Ave. 80,
City Ave. 80, 3/8 mi. E. On L. side of rd.
County Tulare
APN Book ___ Page ___ Parcel ___
Township 23 Range 26 Section 11
Lat ___ N Long ___ W
DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

USES (✓)

WATER SUPPLY
___ Domestic ___ Public
X Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0 1011	27½						16	312	.090
									32 Row
Blank Casing - 567'									
Perf. " - 444'									
0 - 50' top sanitary seal									

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

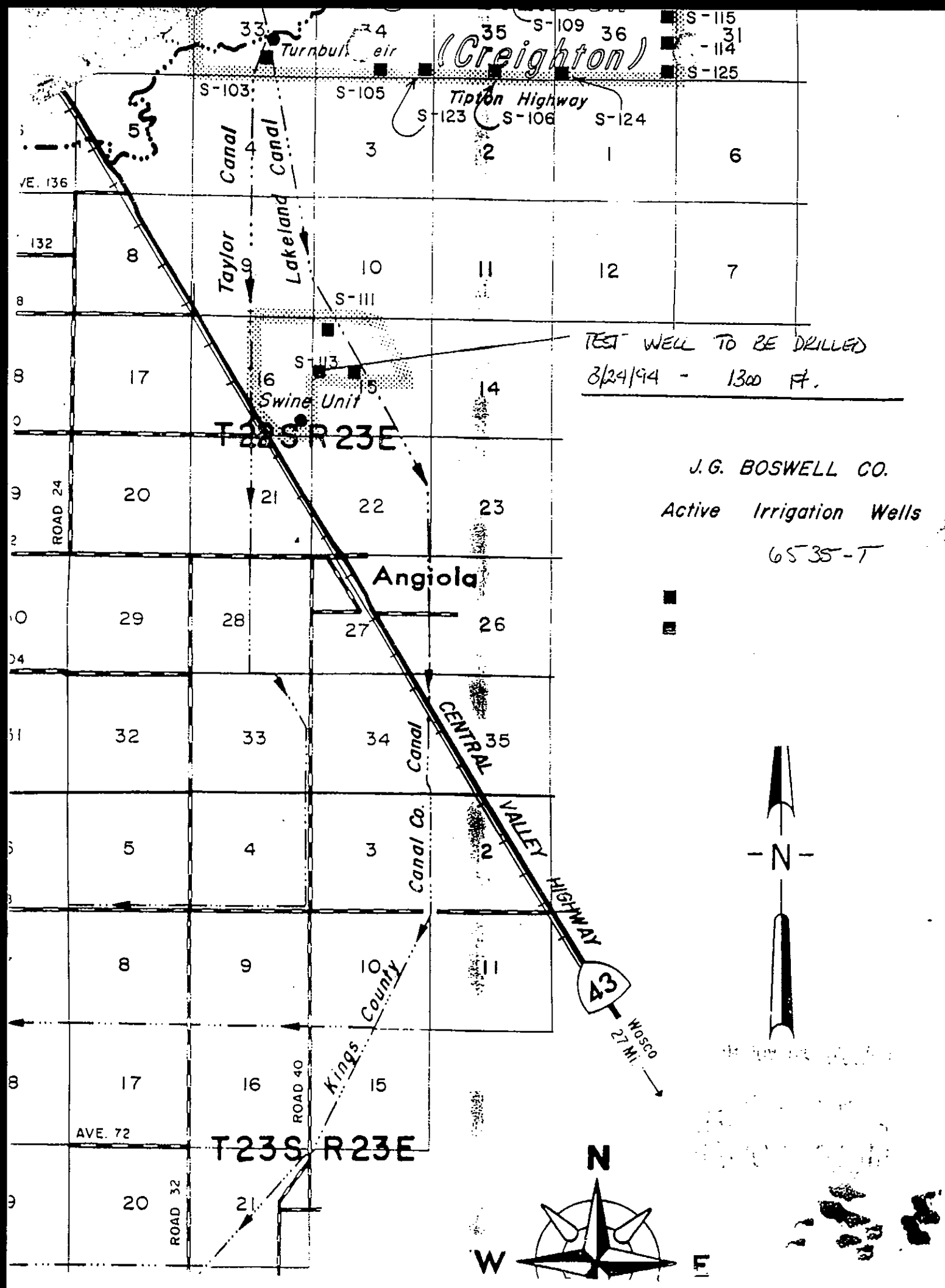
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME WASCO DRILLING COMPANY, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

P. O. Box 181 Wasco Ca. 93280
ADDRESS CITY STATE ZIP

Signed _____ 4/18/05 582658
C-57 LICENSED WATER WELL CONTRACTOR DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 05-03 IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM OSP 03 78836


(Creighton)
Turnbull Weir
S-103
S-105
S-109
S-115
S-114
S-125
S-123
S-106
S-124
Tipton Highway
Canal
Canal
Taylor
Lakeland
S-111
S-113
TEST WELL TO BE DRILLED
8/24/94 - 1300 FT.
Swine Unit
T22S R23E
Angiola
ROAD 24
AVE. 136
CENTRAL VALLEY HIGHWAY
43
WASCO 27 MI.
Canal Co.
Kings County
ROAD 40
ROAD 32
AVE. 72
T23S R23E
J.G. BOSWELL CO.
Active Irrigation Wells
65-35-T
N
N
W
E

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0079777

Page 1 of 1

Owner's Well Number 1

Date Work Began 10/15/2007 Date Work Ended 2/25/2008

Local Permit Agency Tulare Co. Environmental Health

Permit Number 07-0493 Permit Date 10/4/07

DWR Use Only – Do Not Fill In

22S/23E-05

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation ○ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
50	220	Fine Sand
220	280	Sand , Light Clay
280	310	Fine Sand
310	380	Fine Sand , Light Clay
380	450	Fine Sand , Light Clay
450	590	Clay
590	830	Fine Sand , Light Clay
830	970	Clay , Light Sand
970	1,050	Clay , Sand
1050	1,060	Fine Sand , Clay
1060	1,240	Sand , Clay ,

Total Depth of Boring 1240 Feet

Total Depth of Completed Well 1240 Feet

Well Owner

Name Artesia Dairy Farm

Mailing Address 13406 Road 24

City Corcoran State Ca Zip 93212

Well Location

Address West side Hwy. 43 @ Ave. 136

City Corcoran County Tulare

Latitude 36 Deg. 2 Min. 24 Sec. N Longitude 119 Deg. 30 Min. 49 Sec. W

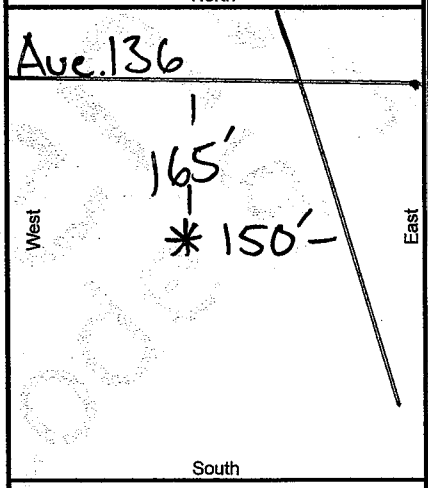
Datum Decimal Lat. Decimal Long.

APN Book 291 Page 030 Parcel 043

Township 22S Range 23E Section 5

Location Sketch

(Sketch must be drawn by hand after form is printed.)



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

- ◉ New Well
- ○ Modification/Repair
  - ○ Deepen
  - ○ Other
- ○ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ◉ Water Supply
  - ☑ Domestic ☐ Public
  - ☑ Irrigation ☐ Industrial
- ○ Cathodic Protection
- ○ Dewatering
- ○ Heat Exchange
- ○ Injection
- ○ Monitoring
- ○ Remediation
- ○ Sparging
- ○ Test Well
- ○ Vapor Extraction
- ○ Other

Water Level and Yield of Completed Well

Depth to first water 275 (Feet below surface)

Depth to Static Water Level 275 (Feet) Date Measured 02/25/2008

Estimated Yield * 1,650 (GPM) Test Type Constant Rate

Test Length 6.0 (Hours) Total Drawdown 430 (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	50	40	Conductor	A 53 Grade B	5/16	32		
0	590	26	Blank	A 53 Grade B	5/16	16		
590	700	26	Screen	A 53 Grade B	5/16	16	Milled Slots	0.060
700	910	26	Blank	A 53 Grade b	5/16	16		
910	1,240	26	Screen	A 53 Grade B	5/16	16	Milled Slots	0.060

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	100	Cement	Sanitary Seal
100	1,240	Filter Pack	6 X 12

Attachments

- ☐ Geologic Log
- ☐ Well Construction Diagram
- ☐ Geophysical Log(s)
- ☐ Soil/Water Chemical Analyses
- ☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Bakersfield Well & Pump Co.
Person, Firm or Corporation

7212 Fruitvale Avenue Bakersfield CA 93308
Address City State Zip

Signed
C-57 Licensed Water Well Contractor

9-24-2008 440537
Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

23/24-27C

ORIGINAL

File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION CONTROL BOARD No. 5
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

LOCATION NOT CHECKED
Do Not Fill In

№ 63272

State Well No. 27C1
Other Well No. 23S/24E-27

(1) OWNER:
Name Dr. A. W. Carlson
Address P.O. Box 427
McFarland, Calif.

(2) LOCATION OF WELL:
County Tulare Owner's number, if any—
R. F. D. or Street No.
1/2 mile East of Road 88 and
1 mile North of Ave. 56.
125'S & 0.45 mi E/o NW Cor.

(3) TYPE OF WORK (check):
New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [X] Test Well [ ] Other [ ]

(5) EQUIPMENT:
Rotary [X]
Cable [ ]
Dug Well [ ]

(6) CASING INSTALLED:
SINGLE [X] DOUBLE [ ]

From ft. to ft.	Diam.	Gage or Wall
600 ft.	16"	1/4 single
1002 ft.	14"	1/4 single

If gravel packed
Diameter of Bore 26" from ft. to ft.
Top to bottom

Type and size of shoe or well ring
Size of gravel: 3/8"
Describe joint Butt Welded

(7) PERFORATIONS:
Type of perforator used Machine
Size of perforations 1/8 X 1cc in., length, by in.
From ft. to ft. 4 Perf. per row 18 Rows per ft.
804 ft. to 1602 ft.

(8) CONSTRUCTION:
Was a surface sanitary seal provided? [ ] Yes [X] No To what depth ft.
Were any strata sealed against pollution? [ ] Yes [X] No If yes, note depth of strata
From ft. to ft.
Method of Sealing

(9) WATER LEVELS:
Depth at which water was first found Unknown ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: gal./min. with ft. draw down after hrs.
Temperature of water Was a chemical analysis made? [ ] Yes [X] No
Was electric log made of well? [ ] Yes [X] No

(11) WELL LOG:
Total depth 1602 ft. Depth of completed well 1602 ft.
Formation: *Describe by color, character, size of material, and structure.*

From ft.	to ft.	Formation
0	3	Top Soil
3	279	Sandy Clay
279	330	Clay
330	334	Sand
334	420	Sandy Clay
420	423	Sand
423	466	Sandy Clay
466	490	Clay
490	493	Sand
493	580	Sandy Clay
580	634	Clay
634	645	Shale
645	670	Clay
670	680	Shale
680	726	Clay
726	770	Blue Clay
770	773	Sand
773	778	Shale
778	820	Blue Clay
820	823	Sand
823	879	Blue Clay
879	910	Clay
910	970	Sandy Clay
970	1029	Clay
1029	1040	Shale
1040	1095	Sandy Clay
1095	1100	Sand
1100	1125	Sandy Clay
1125	1221	Hard Shale
1221	1310	Hard Clay
1310	1320	Hard Shale
1320	1324	Sand
1324	1355	Clay
1355	1450	Hard Shale
1450	1454	Sand
1454	1503	Shale
1503	1595	Shale & Clay
1595	1602	Hard Shale

DTW = 170' 11-18-70 JD

CONFIDENTIAL ... Water Code

Work started 1/28/61 19 . Completed 2/18/61 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps, Inc.
(Person, firm, or corporation) (Typed or printed)
Address 1744 High Street
Delano, California

[SIGNED] [signature]
Well Driller

License No. 148282 Dated 3/27/1961

87028 6-57 50M QUIN △ SPO DWR 188 (REV. 3-54)

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

Page 1 of 3

Owner's Well Number

Date Work Began 03/18/2009 Date Work Ended 4/20/2009

Local Permit Agency Tulare County Environmental Health Services

Permit Number 09-0120 Permit Date 3/9/09

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0094489

DWR Use Only – Do Not Fill In

24S/26E-30

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation ◉ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Reverse Rotary Drilling Fluid Water

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
50	80	Sand Gravel
80	120	Sand Gravel Clay
120	160	Sand
160	280	Sand Clay
280	360	Sand Gravel
360	470	Sand Gravel Clay
470	500	Clay
500	550	Sand Clay
550	640	Sand Gravel Clay
640	770	Sand Clay
770	820	Sand Gravel Clay
820	1,190	Clay Sand
1190	1,290	Clay
1290	1,330	Sand Clay
1330	1,410	Clay

Total Depth of Boring 1410 Feet

Total Depth of Completed Well 1150 Feet

Well Owner

Name Dhillon Farms

Mailing Address 15676 County Line Rd.

City Delano State CA Zip 93292

Well Location

Address N / W corner of Ave 12, Rd. 168

City Delano County Tulare

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

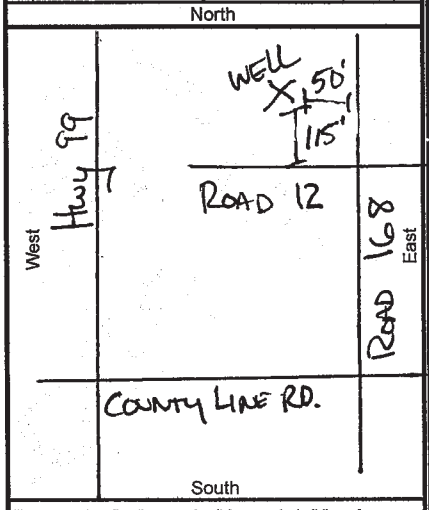
Datum Decimal Lat. Decimal Long.

APN Book 338 Page 080 Parcel 018

Township 24 S Range 26 E Section 30

Location Sketch

(Sketch must be drawn by hand after form is printed.)



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

◉ New Well
○ Modification/Repair
○ Deepen
○ Other
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

◉ Water Supply
☐ Domestic ☐ Public
☑ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
○ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well

Depth to first water 223 (Feet below surface)

Depth to Static Water Level 223 (Feet) Date Measured 04/18/2009

Estimated Yield * 1,500 (GPM) Test Type Constant Rate

Test Length 12.0 (Hours) Total Drawdown 166 (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	50	42	Conductor	A53Grade B	.312	30		
0	530	26	Blank	A53Grade B	.312	16		
530	600	26	Ful Flo	Ful Flo A139	.312	16	Louver	0.090
600	620	26	StandardFlo	SF A139	.312	16	Louver	
620	640	26	Ful Flo	Ful Flo A139	.312	16	Louver	0.090
640	680	26	Standard Flo	SF A139	.312	16	Louver	

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	50	Cement	Annular Seal
0	1,170	Filter Pack	4x16 SRI
1,170	1,410	Fill	Backfill

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Bakersfield Well & Pump Co.
Person, Firm or Corporation

7212 Fruitvale Ave. N Bakersfield CA 93308
Address City State Zip

Signed 7/9/2009 440537
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Notice of Intent No. 159690
Local Permit No. or Date 5/20/82

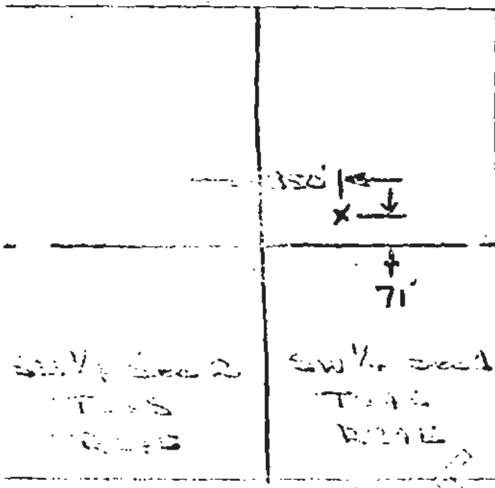
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

1/3
Do not fill in
No. 49066
State Well No. 24/24-1G
Other Well No.

(1) OWNER: Name Superior Farming Company
Address P.O.Box 9999
City Bakersfield, CA Zip 93389

(2) LOCATION OF WELL (See instructions):
County Tulare Owner's Well Number 010-13A
Well address if different from above SW corner of the NW 1/4
Township 24S Range 24E Section 1G
Distance from cities, roads, railroads, fences, etc. 3 3/4 miles west of Earlimart, CA and 1½ miles south of the Alpaugh-Ducor Road; Avenue 56.



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well X Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation X
Industrial ☐
Test Well ☐
Stock ☐
Municipal ☐
Other ☐

(5) EQUIPMENT:
Rotary X Reverse X
Cable ☐ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes XX No ☐ Size Birdseye
Diameter of bore 28"
Packed from 1400 to 450 ft.

(7) CASING INSTALLED:
Steel X Plastic ☐ Concrete ☐

(8) PERFORATIONS: RM - FF
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	640	16	5/16	640	760	3/32
760	780	12	5/16	Reduction & comp. sect.		
		12	5/16	780	1382	3/32

(9) WELL SEAL:
Was surface sanitary seal provided? Yes X No ☐ If yes, to depth 50 ft.
Were strata sealed against pollution? Yes X No ☐ Interval 40 ft.
Method of sealing Bentonite Pellets

(10) WATER LEVELS:
Depth of first water, if known Unknown ft.
Standing level after well completion 207 ft.

(11) WELL TESTS:
Was well test made? Yes X No ☐ If yes, by whom? Driller
Type of test Pump X Bailer ☐ Air lift ☐
Depth to water at start of test 207 ft. At end of test 241 ft.
Discharge 2500 gal/min after 12 hours Water temperature N/A
Chemical analysis made? Yes ☐ No X If yes, by whom?
Was electric log made? Yes X No ☐ If yes, attach copy to this report

(12) WELL LOG: Total depth 1405 ft. Depth of completed well 1382 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	50	Conductor
50	70	70% sand, 30% clay
70	80	50% sand, 50% clay
80	90	Sand
90	130	Brown Clay
130	170	80% sand, 20% sandy brown clay
170	190	Hard brown clay
190	210	90% brown clay 20% sand
210	220	50% clay, 50% sand
220	230	Soft brown clay
230	240	Sandy gray clay
240	250	90% sand, 10% clay
250	260	50% sandy gray clay, 50% sand
260	270	70% sandy gray clay, 30% sand
270	280	50% sandy gray clay, 50% sand
280	350	Gray clay
350	360	Gray sandy clay
360	390	70% sandy blue clay, 30% sand
390	400	60% sandy gray clay, 40% fine sand
400	410	Sandy gray clay
410	420	80% sandy gray clay, 20% sand
420	440	100% gray clay
440	480	100% soft blue clay
480	490	50% gray clay, 50% sand
490	500	70% gray clay, 30 sand
500	510	100% soft blue clay
510	520	Hard blue clay
520	530	50% sand, 50% brown clay
530	540	100% fine sand
540	550	100% clay
550	560	70% sand, 30% clay
560	570	50% sand, 50% blue & gray clay
570	600	100% sand
600	610	100% brown clay
610	620	100% sand
620	630	95% brown & blue clay, 5% sand
630	650	100% brown & blue clay
650	660	70% soft brown clay, 30% sand

DUPLICATE

Work started 5-24-1982 Completed 6-10-1982

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 [signature] (Well Driller)
NAME Layne-Western Company, Inc. (Person, firm, or corporation) (Typed or printed)
Address P.O.Box 3216
City Bakersfield, CA Zip 93385
License No. 407409 Date of this report July 6, 1982

WR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

TRIPLICATE
Owner's Copy

Page ___ of ___

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 489856

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. 18E
Date Work Began 7-15-91, Ended 7-17-91
Local Permit Agency Tulare
Permit No. 369745 Permit Date 7-12-91

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	4	Top Soil
4	9	clay
9	15	sand
15	21	clay
21	37	sand
37	39	clay
39	42	sand
42	63	clay
63	74	sand
74	85	clay
85	91	sand
91	97	clay
97	101	sand
101	105	clay
105	125	sand
125	131	clay
131	142	sand
142	176	clay
176	196	sand
196	222	clay
222	228	sand
228	244	clay
244	250	sand
250	256	clay
256	262	sand
262	270	clay
270	274	sand
274	277	clay
277	281	sand
281	294	clay
294	298	sand
298	301	clay
310	310	sand
310	316	clay
316	336	sand
336	347	clay
347	355	sand
355	400	clay
400	408	sand
408	411	clay
411	426	sand
426	431	clay
431	435	sand
435	440	clay
440	452	sand
452	669	clay
669	716	sand
716	722	clay
722	731	sand
731	747	clay
747	765	sand
765	771	clay
771	775	sands
775	800	clay
800	807	sand
807	820	clay
820	825	sand
825	830	clay
830	852	sand
852	863	clay
863	858	

TOTAL DEPTH OF BORING 960 (Feet)
TOTAL DEPTH OF COMPLETED WELL 930 (Feet)

WELL OWNER

Name Angiola Water Dist.
Mailing Address 10015 Utica Ave.
CITY Corcoran, CA 93212 STATE ZIP

WELL LOCATION

Address Ave 112-½ mi N of Rd 56-200 ft S.
City Corcoran
County Tulare
APN Book Echoe Page 78 Parcel 293-240-03
or Township 22S Range 23 E Section 26
or Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING
WATER SUPPLY
___ Domestic
___ Public
X Irrigation
___ Industrial
___ "TEST WELL"
___ CATHODIC PROTECTION
___ OTHER (Specify)

DRILLING METHOD Reverse FLUID Natural

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL ___ (Ft.) & DATE MEASURED ___
ESTIMATED YIELD* ___ (GPM) & TEST TYPE ___
TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)
* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL/GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	38			X		steel	30	1/4	
0	560	30	X				steel	16	5/16	
560	580	30		Compression section 18/16 5/16						
580	930	30		X			louver	16	5/16	.070

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	X			Conductor
0	540				5/16x4
540	550		X		Tablets
550	930				5/16x4

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Orabov Well Drilling, Inc.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 12522 9th Ave. Hanford, CA 93230
CITY STATE ZIP

Signed ___ 8-1-91 288489
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD01763

TRIPLICATE
Owner's Copy

Page ___ of ___

Owner's Well No. ~~18E Continued~~

Date Work Began _____, Ended _____

Local Permit Agency _____

Permit No. _____ Permit Date _____

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 489857

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
863	868	sand
868	874	clay
874	879	sand
879	890	clay
890	902	sand
902	912	clay
912	920	sand
920	930	clay
930	938	sand
938	960	clay

TOTAL DEPTH OF BORING _____ (Feet)

TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER

Name ~~Anglola Water Dist (continued)~~

Mailing Address _____

CITY STATE ZIP

WELL LOCATION

Address _____

City _____

County _____

APN Book _____ Page _____ Parcel _____

or Township _____ Range _____ Section _____

or Latitude _____ DEG. MIN. SEC. NORTH Longitude _____ DEG. MIN. SEC. WEST

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

___ NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING

WATER SUPPLY

___ Domestic

___ Public

___ Irrigation

___ Industrial

___ "TEST WELL"

___ CATHODIC PROTECTION

___ OTHER (Specify)

DRILLING METHOD _____ FLUID _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____

ESTIMATED YIELD* _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME _____ (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS CITY STATE ZIP

Signed _____ WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD01764

22/23-23J1

CAL T7-54

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

CALIFORNIA

COUNTY: Tulare

AREA: Dudley - Tipman

Date 12-11, 19 57 Well No. 22/23-23J1

Reported by R. L. Kleinsmith Other No. Southlake #14E

Source of data E. T. Other No.

Well No. 22/23-23J1

1. *Location:* Map Wilsonville Photo 5-452a
2. *Owner* Southlake Farms Address
   Former owner Tenant
   Driller Address
3. *Topography* Plain
4. *Altitude:* Lsd 211 ft; how obtained Topo; MP ft.
5. *Type:* Dug, cable, rotary, auger, jet Mayo 1957; Finish Gravel
6. *Depth:* Rept. 1788 ft; Meas. ft; Obstruction ft.
7. *Casing:* Diam. 16 in. to 597 ft; 12 in. to 1768 ft. Type
   Perforations 597 to 1788
8. *Aquifers* 96, 66 Oct 9, 1958
9. *Water level* 120.35 ft Stdg; rept 12-11 1957 above below T.C.
   Oil Pmpg; meas
   which is 1.0 ft above below Lsd
   Access on North side
10. *Pump:* Type Peerless Sub; Dschg diam 10 in; length 25 ft
    Power U S Elec; HP 100; Meter No. 370917
11. *Yield:* Flow gpm, pump gpm, meas, rept, est.
    Drawdown ft after min hrs pmpg. Specific cap.
12. *Use:* Dom, Stock, PS, Rlt, Ind, Irr, Obs, Destroyed, Unused, Test,
13. *Quality* Temp °F 19
    Taste, odor, color Sampled 19
14. Other data: log, analyses, water levels, electric log
15. *Remarks:*

MOTOR # 1012417

14E

PLOTTED FEB 1970

Well No. 22/23-23J1

Location: 0.46 mile north and 90 ft mile west of SE corner sec. 23

Remarks: Name # 4304

10-70 fld. ch'd. DTW-138' PERMISSION TO MEASURE PER FOR; WORKING LAND, WHO VERIFIED DEPTH, PERFS & APPROX. DATE DRILLED T.

AWD01664

24/24-4

LOCATION NOT CHECKED

DUPLICATE
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No. 5
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

3427

Do Not Fill In
No 63276
4E2

State Well No. U8E1
Other Well No. 24S/24E-4

(1) OWNER:
Name John W. Oglesby
Address 516 West 4th.
Arvin, California

(2) LOCATION OF WELL:
County Tulare Owner's number, if any—
R. F. D. or Street No.
1/2 mile North of the town of Allensworth and 300 ft. West of Santa Fe Railway tracks.

(3) TYPE OF WORK (check):
New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [X] Other [ ]

(5) EQUIPMENT:
Rotary [X]
Cable [ ]
Dug Well [ ]

(6) CASING INSTALLED:
SINGLE [X] DOUBLE [ ]
From ft. to ft. 14" Diam. 1/4 Gage or Wall
Top to 1,200 ft.

If gravel packed
Diameter of Bore 26" from ft. to ft.
Top to bottom

Type and size of shoe or well ring
Size of gravel: 3/8"
Describe joint Butt welded

(7) PERFORATIONS:
Type of perforator used Machine
Size of perforations 1/8 x 1 cc in., length, by in.
From ft. to ft. 4 Perf. per row 18 Rows per ft.
798 ft. to 1,200 ft.

(8) CONSTRUCTION:
Was a surface sanitary seal provided? [ ] Yes [X] No To what depth ft.
Were any strata sealed against pollution? [ ] Yes [X] No If yes, note depth of strata
From ft. to ft.
Method of Sealing

(9) WATER LEVELS:
Depth at which water was first found Unknown ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:
Was a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: gal./min. with ft. draw down after hrs.
Temperature of water Was a chemical analysis made? [ ] Yes [X] No
Was electric log made of well? [ ] Yes [X] No

(11) WELL LOG:
Total depth 1,200 ft. Depth of completed well 1,200 ft.
Formation: *Describe by color, character, size of material, and structure.*

From (ft.)	To (ft.)	Formation
0	35	Sandy Clay Top Soil
35	218	Clay
218	300	Sandy Clay
300	369	Clay
369	482	Shale
482	487	Sand
487	610	Clay
610	616	Hard Clay
616	630	Sandy Clay
630	638	Hard Clay
638	787	Clay
787	813	Shale
813	935	Clay
935	995	Sandy Clay
995	1015	Clay
1015	1025	Sand
1025	1089	Clay
1089	1104	Hard Shale
1104	1178	Clay
1178	1200	Shale

DTW = 166 - 11-5-70 JD

CONFIDENTIAL

Work started 6/27/61 19 , Completed 7/15/61 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps, Inc.
(Person, firm, or corporation) (Typed or printed)
Address 1744 High Street
Delano, California

[SIGNED] [signature]
Well Driller
License No. 148282 Dated January 31, 19 62

57023 6-57 50M QUIN SPO DWR 188 (REV. 3-54)

24/23-31N1

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No.____
(Insert appropriate number)

WATER WELL DRILLERS REPORT
(Sections 7076, 7077, 7078, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA

Do Not Fill In
No 118716

State Well No.____
Other Well No. 24S/23E-31N1

(1) OWNER:
Name Westgate Calif. Realty Co.
Address 1021 Sub. Term. Bldg.
417 S. Hill, Los Angeles, California

(2) LOCATION OF WELL:
County Tulare Owner's number, if any— #20
R. F. D. or Street No.
SW Corner S 31, T24 S, R23 E

65'N & 85' E/o SW Cor.

(3) TYPE OF WORK (check):
New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☒
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:
SINGLE ☒ DOUBLE ☐

From	ft. to	ft.		Gage or Wall
0	400	6"OD		
400	1190	14"OD		

If gravel packed

Diameter of Bore	from ft.	to ft.
25½	top	to bottom

Type and size of shoe or well ring
Size of gravel:
Describe joint Collared with fillet weld

(7) PERFORATIONS:
Type of perforator used Machine
Size of perforations .100"X2 in., length, by 6cc in.

From	ft. to	ft.	Perf. per row	Rows per ft.
490	1190	2	14	

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.
Were any strata sealed against pollution? ☐ Yes ☒ No If yes, note depth of strata
From ft. to ft.
" " "
Method of Sealing

(9) WATER LEVELS:
Depth at which water was first found Unknown ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. draw down after hrs.
Temperature of water Was a chemical analysis made? ☐ Yes ☒ No
Was electric log made of well? ☒ Yes ☐ No

(11) WELL LOG:
Total depth ft. Depth of completed well ft.
Formation: *Describe by color, character, size of material, and structure.*

0 ft. to	4 ft.	top soil
4 "	92 "	sandy clay
92 "	304 "	sandy clay
304 "	680 "	sandy clay
680 "	684 "	sand
684 "	723 "	sandy clay
723 "	843 "	Sandy clay
843 "	873 "	clay
873 "	934 "	sandy clay
934 "	1055 "	hard shale
1055 "	1186 "	hard clay
1186 "	1190 "	hard shale

PRM 10/70 292' TS + JP

C. Clay = 381'

CONFIDENTIAL
Water Code Sec. 7080

Work started Sept. 7 19 66. Completed Sept. 19 19 66

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps, Inc.
(Person, firm, or corporation) (Typed or printed)
Address 1744 Inyo Street
Delano, California
[SIGNED] [signature]
Well Driller
License No. 148282 Dated November 18, 1966

97648 5-63 25M QUIN ① △ SPO

DWR 188 (REV. 5-63)

24/23-22R2

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No.....
(Insert appropriate number)

WATER WELL DRILLERS REPORT
(Sections 7076, 7077, 7078, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA

Do Not Fill In
No 116291

State Well No. 24S/23E-22R2
Other Well No. 24S/23E-22

(1) OWNER:
Name Alpaugh Irrigation District
Address P. O. Box 127
Alpaugh, California

(2) LOCATION OF WELL:
County Tulare Owner's number, if any—
R. F. D. or Street No.
Southeast corner sec 22 ~~SE SW~~
township 24S Range 23E

220'N & 75'N/O SE Cor.

(3) TYPE OF WORK (check):
New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☒
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:
SINGLE ☒ DOUBLE ☐

From	ft. to	ft.	Diam.	Gage or Wall
" 0	" 500	" 16	" 1/4	"
" 500	" 1200	" 14	" 1/4	"
"	"	"	"	"

16" OD to 14" OD
"Transition" Joint Slip
Type and size of shoe or well ring
Describe joint collared W/ fillet weld

If gravel packed
Diameter of Bore 25½ from ft. to ft.
" " "
top to bottom
" " "
" " "
ft. " "
Size of gravel:

(7) PERFORATIONS:
Type of perforator used machine
Size of perforations .100 x 2 in., length, by 6cc in.
From 500 to 1200 ft. 2 Perf. per row 1½ Rows per ft.
" " " " " " " " "
" " " " " " " " "
" " " " " " " " "
" " " " " " " " "

(8) CONSTRUCTION:
...vided? ☐ Yes ☒ No To what depth ft.
...n? ☐ Yes ☒ No If yes, note depth of strata
ft.
"
ft.
ft.
ft.
...hom?
ft. draw down after hrs.
...a chemical analysis made? ☐ Yes ☒ No
...No

(11) WELL LOG:
Total depth 1205 ft. Depth of completed well 1205 ft.
Formation: *Describe by color, character, size of material, and structure.*

0	ft. to	4	ft. top soil
4	"	35	" sandy clay
35	"	78	" sandy clay
78	"	121	" sandy clay
121	"	329	" sandy clay
329	"	540	" sandy clay
540	"	664	" blue clay
664	"	874	" clay hard
874	"	900	" sandy clay
900	"	904	" sand
904	"	934	" clay
934	"	1058	" shale & clay
1058	"	1146	" hard shale
1146	"	1205	" blue sand

OTW = 244' 10/30/70 TS+JD

CONFIDENTIAL
Water Code Sec. 13752

Work started 10/31/66 19 , Completed 11/14/66 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps, Inc.
(Person, firm, or corporation) (Typed or printed)
Address 1741 Inyo Street
Delano, California
[SIGNED] [signature]
Well Driller
License No. 148282 Dated 4/22/67, 19

97649 5-65 25M QUIN ① △ SPO

DWR 188 (REV. 3-54)

24/23-22R2

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No.............
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA

Do Not Fill In
№ 116291

State Well No. 22R2
Other Well No. 24S/23E-22

(1) OWNER:
Name Alpaugh Irrigation District
Address P. O. Box 127
Alpaugh, California

(2) LOCATION OF WELL:
County Tulare   Owner's number, if any—
R. F. D. or Street No.
Southeast corner sec 22 ~~SE 23~~
township 24S Range 23E
220'N & 75'N/O SE Cor.

(3) TYPE OF WORK (*check*):
New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (*check*):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☒
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:
SINGLE ☒ DOUBLE ☐

From ft.	to ft.	Diam.	Gage or Wall
0	500	16	1/4
500	1200	14	1/4
16" OD to 14" OD			
Transition Joint Slip jt.			

If gravel packed
Diameter of Bore 25½ from ft. to ft.
top to bottom

Type and size of shoe or well ring
Size of gravel:
Describe joint collared W/ fillet weld

(7) PERFORATIONS:
Type of perforator used machine
Size of perforations .100 x 2 in., length, by 6cc in.
From 500 to 1200 ft. 2 Perf. per row 1½ Rows per ft.

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.
Were any strata sealed against pollution? ☐ Yes ☒ No If yes, note depth of strata
From ft. to ft.
Method of Sealing

(9) WATER LEVELS:
Depth at which water was first found unknown ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. draw down after hrs.
Temperature of water   Was a chemical analysis made? ☐ Yes ☒ No
Was electric log made of well? ☒ Yes ☐ No

(11) WELL LOG:
Total depth 1205 ft. Depth of completed well 1205 ft.
Formation: *Describe by color, character, size of material, and structure.*

ft.	to ft.	Formation
0	4	top soil
4	35	sandy clay
35	78	sandy clay
78	121	sandy clay
121	329	sandy clay
329	540	sandy clay
540	664	blue clay
664	874	clay hard
874	900	sandy clay
900	904	sand
904	934	clay
934	1058	shale & clay
1058	1146	hard shale
1146	1205	blue sand

DTW = 244' 10/30/70 75+JD

CONFIDENTIAL
Water Code Sec. 13752

Work started 10/31/66 19 . Completed 11/14/66 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Whitten Pumps, Inc.
(Person, firm, or corporation) (Typed or printed)
Address 1744 Inyo Street
Delano, California
[SIGNED] [signature]
Well Driller
License No. 148282 Dated 4/22/67 19

67349 9-63 25M QUIN ① △ SPO   DWR 188 (REV. 3-64)

ORIGINAL
File with DWR

Page 1 of 2

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. E072308

DWR USE ONLY — DO NOT FILL IN
24S/23E-22 1/3
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. 8104
Date Work Began 1/28/2008, Ended 2/1/2008
Local Permit Agency TULARE COUNTY HEALTH DEPT
Permit No. 07-0141 Permit Date 4/9/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)
DRILLING METHOD REVERSE FLUID WATER

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0	5	CLAY TOP SOIL
5	8	COARSE SAND
8	12	SILTY BROWN CLAY
12	16	COARSE SAND
16	95	SILTY BROWN CLAY
95	175	SILTY TAN CLAY WITH SAND
175	285	SILTY BLUE GRAY CLAY WITH SAND
285	350	SAND WITH SILTY BLUE GRAY CLAY STREAKS
350	365	SILTY BLUE GRAY CLAY
365	420	SAND WITH SILTY BLUE GRAY CLAY STREAKS
420	435	SILTY BLUE GRAY CLAY
435	458	SAND
458	500	SILTY BLUE GRAY CLAY
500	630	SOFT BLUE GRAY CLAY
630	685	SAND WITH SILTY BLUE GRAY CLAY STREAKS
685	740	SAND
740	745	BLUE GRAY CLAY
745	810	SAND
810	865	SAND WITH BRITTLE BLUE GRAY CLAY
		STREAKS
865	940	BLUE GRAY CLAY WITH SAND STREAKS
940	995	SAND WITH BRITTLE BLUE GRAY CLAY
		STREAKS
995	1035	SAND
1035	1055	BLUE GRAY CLAY
1055	1140	BLUE GRAY CLAY WITH SAND STREAKS
1140	1196	SAND
1196	1205	BLUE GRAY CLAY

TOTAL DEPTH OF BORING 1090 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1050 (Feet)

WELL OWNER

Name ANGIOLA WATER DISTRICT
Mailing Address 944 WHITLEY AVE
CORCORAN CA 93212
CITY STATE ZIP

WELL LOCATION

Address .15 MI NOF AVE 112 & 250' WOF HWY 43
City CA
County TULARE
APN Book 291 Page 070 Parcel 010
Township 22 S Range 23 E Section 22
Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

✓ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)
— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)
WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial
MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER — (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 320 (Ft.) & DATE MEASURED 4/19/2008
ESTIMATED YIELD * 1000 (GPM) & TEST TYPE
TEST LENGTH — (Hrs.) TOTAL DRAWDOWN 30 (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	360	28					ACCESS TB	2	SCH 40	
0	400	28	✓				ASTM-135	16	.312	
400	510	28	✓				ASTM-135	16	.375	
510	520	28					COMP SEC	16		
520	670	28	✓				ASTM-135	16	.312	
670	850	28		✓			DBL MILLSL	16	.312	.060

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	480	✓			SAND SLURRY
480	1090			✓	SRI#8 SAND

ATTACHMENTS (✓)

— Geologic Log
— Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME EATON DRILLING CO.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
20 WEST KENTUCKY AVE WOODLAND CA 95695
ADDRESS CITY STATE ZIP
Signed [signature] 04/29/08 C57 A HIC - 13378
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Page 2 of 2

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. E072308

DWR USE ONLY — DO NOT FILL IN
22S/23E-22 13
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. 8104
Date Work Began 1/28/2008, Ended 2/1/2008
Local Permit Agency TULARE COUNTY HEALTH DEPT
Permit No. 07-0141 Permit Date 4/9/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)
DRILLING METHOD REVERSE FLUID WATER

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0	5	CLAY TOP SOIL
5	8	COARSE SAND
8	12	SILTY BROWN CLAY
12	16	COARSE SAND
16	95	SILTY BROWN CLAY
95	175	SILTY TAN CLAY WITH SAND
175	285	SILTY BLUE GRAY CLAY WITH SAND
285	350	SAND WITH SILTY BLUE GRAY CLAY STREAKS
350	365	SILTY BLUE GRAY CLAY
365	420	SAND WITH SILTY BLUE GRAY CLAY STREAKS
420	435	SILTY BLUE GRAY CLAY
435	458	SAND
458	500	SILTY BLUE GRAY CLAY
500	630	SOFT BLUE GRAY CLAY
630	685	SAND WITH SILTY BLUE GRAY CLAY STREAKS
685	740	SAND
740	745	BLUE GRAY CLAY
745	810	SAND
810	865	SAND WITH BRITTLE BLUE GRAY CLAY STREAKS
865	940	BLUE GRAY CLAY WITH SAND STREAKS
940	995	SAND WITH BRITTLE BLUE GRAY CLAY STREAKS
995	1035	SAND
1035	1055	BLUE GRAY CLAY
1055	1140	BLUE GRAY CLAY WITH SAND STREAKS
1140	1196	SAND
1196	1205	BLUE GRAY CLAY

TOTAL DEPTH OF BORING 1090 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1050 (Feet)

WELL OWNER
Name ANGIOLA WATER DISTRICT
Mailing Address 944 WHITLEY AVE
CORCORAN CA 93212
CITY STATE ZIP

WELL LOCATION
Address .15 MI NOF AVE 112 & 250' WOF HWY 43
City CA
County TULARE
APN Book 291 Page 070 Parcel 010
Township 22 S Range 23 E Section 22
Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH
NORTH / WEST / EAST / SOUTH
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)
✓ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)
— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)
WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial
MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER — (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 320 (Ft.) & DATE MEASURED 4/19/2008
ESTIMATED YIELD * 1000 (GPM) & TEST TYPE
TEST LENGTH — (Hrs.) TOTAL DRAWDOWN 30 (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
850	940	28	✓				ASTM-135	16	.312	
940	960	28		✓			DBL MILLSL	16	.312	.060
960	990	28	✓				ASTM-135	16	.312	
990	1030	28		✓			DBL MILLSL	16	.312	.060
1030	1050	28	✓				ASTM-135	16	.312	

ANNULAR MATERIAL

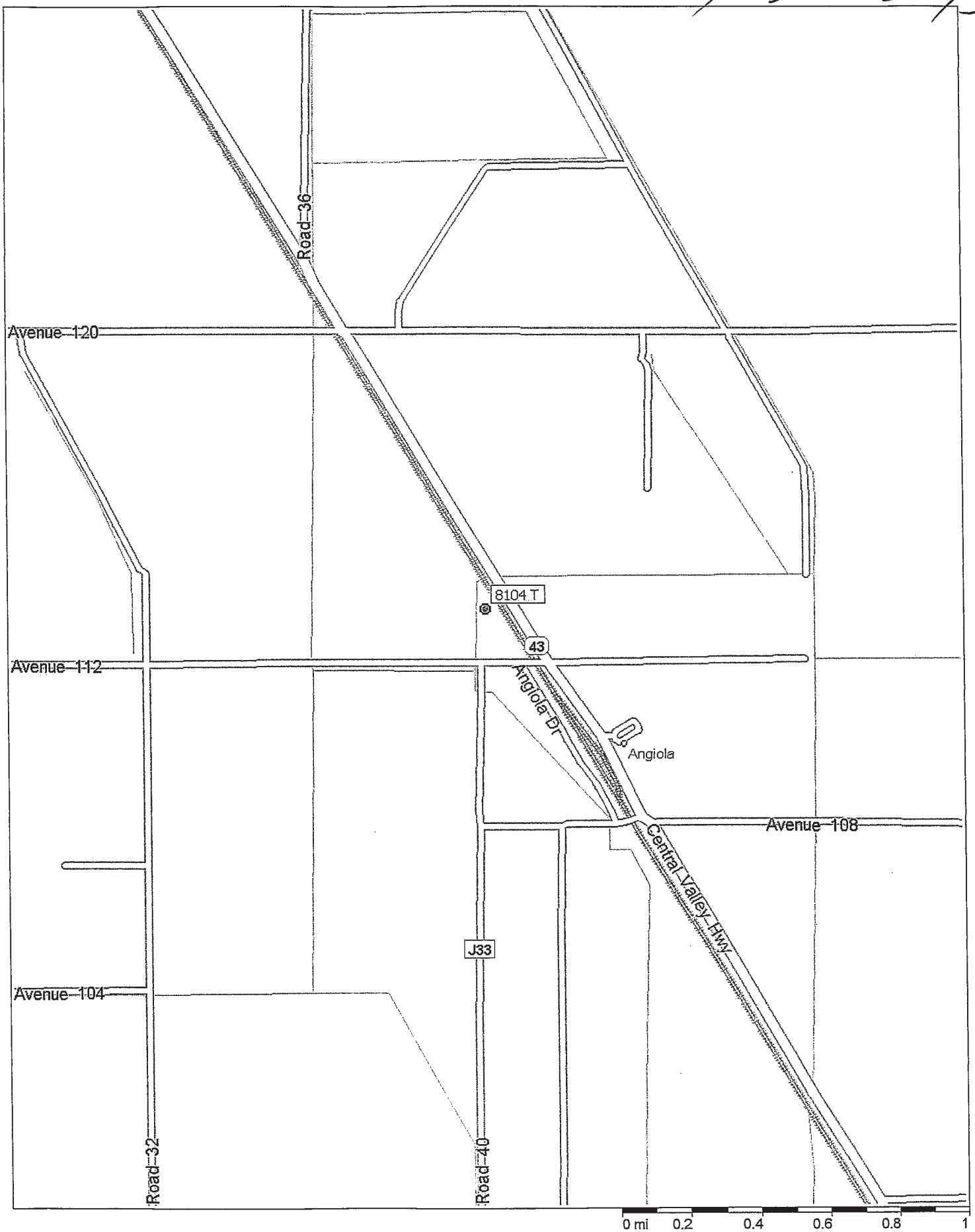
DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	480	✓			SAND SLURRY
480	1090			✓	SRI#8 SAND

ATTACHMENTS (✓)
— Geologic Log
— Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME EATON DRILLING CO.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
20 WEST KENTUCKY AVE WOODLAND CA 95695
ADDRESS CITY STATE ZIP
Signed Mark Dawson 04/29/08 C57 A HIC - 13378
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97
IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

22S/23E-22 3/3



W16

File Original with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY – DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Page 1 of 1
Owner's Well No. Well #16 or Layne Well #2 No. e077033
Date Work Began 5/8/08 Ended
Local Permit Agency Tulare County Env Health Services Div
Permit No. 08-0222 Permit Date 5/8/08

GEOLOGIC LOG

ORIENTATION (X) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Reverse Rotary FLUID

DEPTH FROM SURFACE FL to Ft.		DESCRIPTION *Describe material, grain size, color, etc.*
60	260	sand, clay
260	300	clay, sand
300	310	clay,sand, little, grvel
310	320	clay, sand
320	1330	sand, clay

TOTAL DEPTH OF BORING 1332 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1312 (Feet)

WELL OWNER

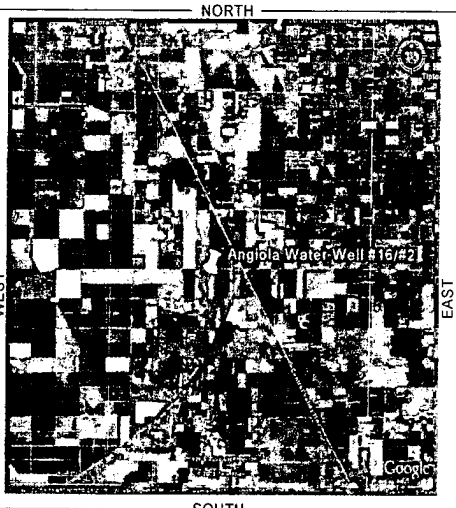
Name Angiola Water District
Mailing Address 944 Whitley Ave Ste A
Corcoran CA 93212
CITY STATE ZIP

WELL LOCATION

Address Ave 112 & Rd 40
City Corcoran CA 93212
County Tulare County
APN Book 311 Page 020 Parcel 010
Township 23S Range 23E Section 4
Latitude 35 DEG. 57 MIN. 26.38 SEC. NORTH Longitude 119 DEG. 29 MIN. 1.7 SEC. WEST

LOCATION SKETCH

NORTH



SOUTH

Illustrate or Describe Distance Of Well from Roads Buildings, Fences, Rivers etc and attach map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (X)

X NEW WELL
___ MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (X)

WATER SUPPLY
X Domestic ___ Public
X Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER Unknown (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 321.93 *(Ft.)* & DATE MEASURED Late July through 8/1/08
ESTIMATED YIELD 1685 (GPM) & TEST TYPE pump
TEST LENGTH 57 (Hrs.) TOTAL DRAWDOWN 163.56 *(Ft.)*
** May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (inches)	CASING (S) TYPE (-') BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	OUTSIDE DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0 to 40	36			X		Steel	30	.375	
0 to 870	26	X				Steel	16	.375	
870 to 910	26		X			Steel	16	.312	Full Flow .060
910 to 930	26	X				Steel	16	.375	
930 to 990	26		X			Steel	16	.312	VMS .060
990 to 1044	26	X				Steel	16	.375	

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL TYPE CEMENT (X)	BENTONITE (X)	FILL (X)	FILTER PACK (TYPE/SIZE)
0 to 500	X			
500 to 510				Hole Plug
510 to 1312			X	Gravel Pack 1/4 X 10

ATTACHMENTS (X)

X Geologic Log
X Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Layne Christensen Company (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 11001 Etiwanda Ave CITY Fontana STATE CA ZIP 92337
Signed [signature] (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED 3/28/08 C-57 LICENSE NUMBER 510011

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD02954

TRIPLICATE
Owner's Copy

Page 1 of 3

Owner's Well No. G-17 = 6-28 (old / new)

Date Work Began 9/13/2007, Ended 10/9/2007

Local Permit Agency TULARE COUNTY

Permit No. 07-0438 Permit Date 9/11/2007

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. E054498

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./ STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)

DRILLING METHOD REVERSE FLUID

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0	10	SANDY BROWN CLAY
10	12	COARSE SAND
12	15	SANDY BROWN CLAY
15	34	SANDY BROWN CLAY & GRAVEL
34	41	COARSE SAND
41	50	BROWN CLAY
50	73	SAND
73	76	GRAVEL
76	85	CLAY
85	92	HARD CLAY
92	104	SOFT CLAY
104	116	SANDY HARD CLAY
116	124	SAND
124	136	HARD CLAY
136	141	SANDY CLAY
141	149	CLAY
149	158	SANDY CLAY
158	183	CLAY
183	194	SAND & GRAVEL
194	199	COARSE SAND
199	209	CLAY
209	235	SAND
241	268	SANDY CLAY
268	310	CLAY
310	332	SANDY CLAY
332	356	SAND & GRAVEL
356	365	SAND
365	371	CLAY
371	377	GRAVEL & COARSE SAND
377	384	CLAY

TOTAL DEPTH OF BORING 1120 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1120 (Feet)

WELL OWNER

Name ANGIOLA WATER DIST.

Mailing Address 944 WHITLEY AVE. SUITE

CORCORAN CA 93212

CITY STATE ZIP

WELL LOCATION

Address RD 40 & AVE 112

City ANGIOLA CA

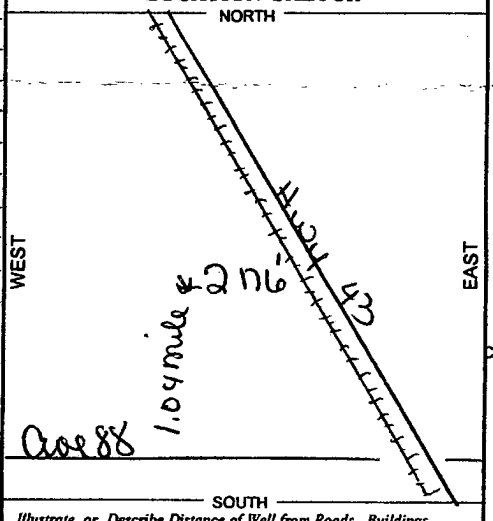
County TULARE

APN Book 291 Page 110 Parcel 003

Township 22 S Range 23 E Section 34

Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR

— Deepen

— Other (Specify)

— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)

WATER SUPPLY

— Domestic — Public

✓ Irrigation — Industrial

MONITORING —

TEST WELL —

CATHODIC PROTECTION —

HEAT EXCHANGE —

DIRECT PUSH —

INJECTION —

VAPOR EXTRACTION —

SPARGING —

REMEDIATION —

OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER — (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL — (Ft.) & DATE MEASURED

ESTIMATED YIELD * — (GPM) & TEST TYPE

TEST LENGTH — (Hrs.) TOTAL DRAWDOWN — (Ft.)

May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	760	30"	✓				STEEL	18"	3/8"	
760	762	30"	✓				STEEL	18" - 16	3/8"	
762	1122	28"		✓			STEEL	16"	3/8"	.050 SLO

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			SIX SACK
0	700			✓	1/4 X #8
700	1120			✓	6 x 16 / 1/4 # 1

ATTACHMENTS (✓)

— Geologic Log

✓ Well Construction Diagram

— Geophysical Log(s)

— Soil/Water Chemical Analysis

— Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP

Signed Carla Kennell
WELL DRILLER/AUTHORIZED REPRESENTATIVE

10/12/07 DATE SIGNED

548214 C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD02578

TRIPLICATE
Owner's Copy

Page 2 of 3

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. E054498

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./ STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Owner's Well No. G-17

Date Work Began 9/13/2007, Ended 10/9/2007

Local Permit Agency TULARE COUNTY

Permit No. 07-0438 Permit Date 9/11/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)

DRILLING METHOD REVERSE FLUID

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
384	399	COARSE SAND & GRAVEL
399	411	SANDY CLAY
411	416	SAND
416	436	CLAY
436	455	COARSE SAND
455	482	SANDY CLAY
482	547	CLAY
547	553	SAND
553	594	CLAY
594	607	SANDY CLAY
607	663	CLAY
663	672	SANDY CLAY
672	718	CLAY
718	740	SANDY CLAY
740	786	SAND
786	810	SANDY CLAY
810	826	CLAY
826	847	SAND
847	861	COARSE SAND
861	884	SANDY CLAY
884	903	CLAY
903	941	SAND
941	960	CLAY
960	987	COARSE SAND
987	1004	SANDY CLAY
1004	1011	SAND
1011	1025	COARSE SAND
1025	1041	CLAY
1041	1058	SAND
1058	1064	CLAY

TOTAL DEPTH OF BORING 1120 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1120 (Feet)

WELL OWNER

Name ANGIOLA WATER DIST.

Mailing Address 944 WHITLEY AVE. SUITE

CORCORAN CA 93212

CITY STATE ZIP

WELL LOCATION

Address RD 40 & AVE 112

City ANGIOLA CA

County TULARE

APN Book 291 Page 110 Parcel 003

Township 22 S Range 23 E Section 34

Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH

WEST EAST

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR

— Deepen

— Other (Specify)

— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)

WATER SUPPLY

— Domestic — Public

✓ Irrigation — Industrial

MONITORING —

TEST WELL —

CATHODIC PROTECTION —

HEAT EXCHANGE —

DIRECT PUSH —

INJECTION —

VAPOR EXTRACTION —

SPARGING —

REMEDIATION —

OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER — (FL) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL — (Ft.) & DATE MEASURED

ESTIMATED YIELD * — (GPM) & TEST TYPE

TEST LENGTH — (Hrs.) TOTAL DRAWDOWN — (FL)

May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	760	30"	✓				STEEL	18"	3/8"	
760	762	30"	✓				STEEL	18" - 16	3/8"	
762	1122	28"		✓			STEEL	16"	3/8"	.050 SLO

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			SIX SACK
0	700			✓	1/4 X #8
700	1120			✓	6 x 16 / 1/4 # 1

ATTACHMENTS (✓)

— Geologic Log

✓ Well Construction Diagram

— Geophysical Log(s)

— Soil/Water Chemical Analysis

— Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP

Signed _____ 10/12/07 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD02579

TRIPLICATE
Owner's Copy

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. E054498

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./ STATION NO.

LATITUDE | LONGITUDE

APN/TRS/OTHER

Owner's Well No. G-17

Date Work Began 9/13/2007, Ended 10/9/2007

Local Permit Agency TULARE COUNTY

Permit No. 07-0438 Permit Date 9/11/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)

DRILLING METHOD REVERSE FLUID

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
1064	1081	COARSE SAND
1081	1100	SANDY CLAY
1100	1118	SAND
1118	1120	CLAY

TOTAL DEPTH OF BORING 1120 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1120 (Feet)

WELL OWNER

Name ANGIOLA WATER DIST.

Mailing Address 944 WHITLEY AVE. SUITE

CORCORAN CA 93212

CITY STATE ZIP

WELL LOCATION

Address RD 40 & AVE 112

City ANGIOLA CA

County TULARE

APN Book 291 Page 110 Parcel 003

Township 22 S Range 23 E Section 34

Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH

WEST EAST

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR
— Deepen
— Other (Specify)

— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)

WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial

MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER — (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL — (Ft.) & DATE MEASURED

ESTIMATED YIELD * — (GPM) & TEST TYPE

TEST LENGTH — (Hrs.) TOTAL DRAWDOWN — (Ft.)

May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	760	30"	✓				STEEL	18"	3/8"	
760	762	30"	✓				STEEL	18" - 16	3/8"	
762	1122	28"		✓			STEEL	16"	3/8"	.050 SLO

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			SIX SACK
0	700			✓	1/4 X #8
700	1120			✓	6 x 16 / 1/4 # 1

ATTACHMENTS (✓)

— Geologic Log
✓ Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP

Signed _____ 10/12/07 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD02580

File Original with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY – DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Page 1 of 2
Owner's Well No. 3 / E-22 No. e0078570
Date Work Began 5/19/08 Ended 10/3/08
Local Permit Agency Tulare County Environmental Health Division
Permit No. 08-0248 Permit Date 5/19/08

GEOLOGIC LOG

ORIENTATION (X) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Reverse Rotary FLUID ___

DEPTH FROM SURFACE FL	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
40	60	Sand, pebbles
60	360	Sand
360	370	Sand, little clay
370	380	Sand, Clay
380	390	Sand, little clay
390	720	Sand, little clay
720	880	Clay, sand
880	1010	Sand, Clay
1010	1150	Clay, sand

RECEIVED
OCT 14 2008
By

TOTAL DEPTH OF BORING 1160 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1140 (Feet)

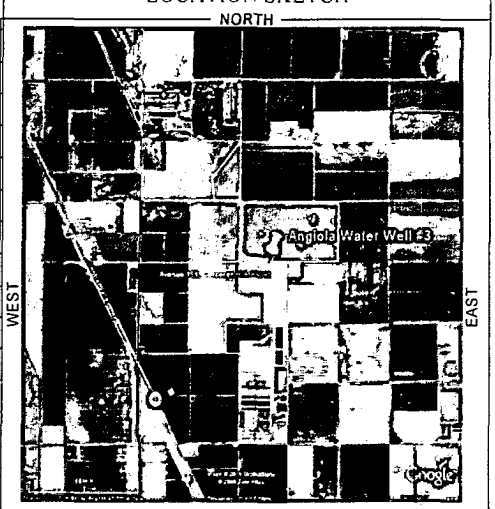
WELL OWNER

Name Angiola Water District
Mailing Address 944 Whitley Ave Ste A
Corcoran (CITY) Ca (STATE) 93212 (ZIP)

WELL LOCATION

Address 1.8 Mi E Hwy 43 off Ave 108
City Corcoran Ca 93212
County Tulare County
APN Book 293 Page 230 Parcel 01
Township 22S Range 23E Section 25
Latitude 35 DEG. 59 MIN. 8.66 SEC. NORTH Longitude 119 DEG. 26 MIN. 30.18 SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance Of Well from Roads Buildings, Fences, Rivers etc and attach map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (X)

X NEW WELL
___ MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (*Describe Procedures and Materials Under "GEOLOGIC LOG"*)

PLANNED USES (X)
WATER SUPPLY
X Domestic ___ Public
X Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER Unknown (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 328.95 (Ft.) & DATE MEASURED 9/30/08-10/3/08
ESTIMATED YIELD 2075 (GPM) & TEST TYPE Step and constant pump
TEST LENGTH 35 (Hrs.) TOTAL DRAWDOWN 74.08 (Ft.)
* *May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (inches)	TYPE (-') BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	OUTSIDE DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	40	40			X		Steel	30	.375	
0	640	26	X				Steel	16	.375	
640	700	26		X			Steel	16	.312	.060 Full Flow
700	720	26	X				Steel	16	.375	
720	800	26		X			Steel	16	.312	.060 Full Flow
800	860	26	X				Steel	16	.375	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (X)	BENTONITE (X)	FILL (X)	FILTER PACK (TYPE/SIZE)
0	500	X			8 Sac Sand Slurry
500	510				Hole Plug
510	1140			X	1/4 x 10 Greenfield Gravel Pack

ATTACHMENTS (X)

X Geologic Log
X Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Layne Christensen Company (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 11001 Etiwanda Ave CITY Fontana STATE Ca ZIP 92337
Signed [signature] (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED 10/7/08
C-57 LICENSE NUMBER 510011

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD01861

File Original with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. 3 / E-22 No. e0078570
Date Work Began 5/19/08 Ended 10/3/08
Local Permit Agency Tulare County Environmental Health Division
Permit No. 08-0248 Permit Date 5/19/08

GEOLOGIC LOG

ORIENTATION (X) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Reverse Rotary FLUID ___

DEPTH FROM SURFACE FL to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*

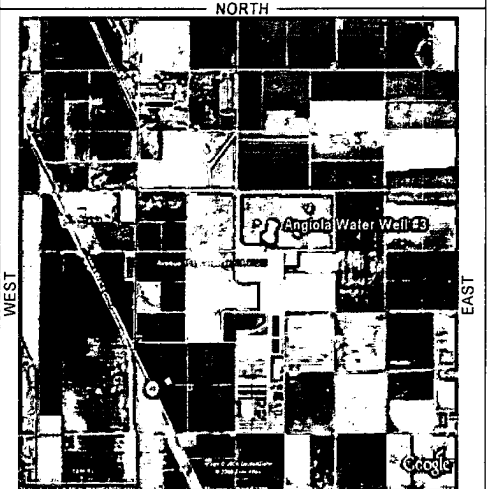
WELL OWNER

Name Angiola Water District
Mailing Address 944 Whitley Ave Ste A
Corcoran (CITY) Ca (STATE) 93212 (ZIP)

WELL LOCATION

Address 1.8 Mi E Hwy 43 off Ave 108
City Corcoran Ca 93212
County Tulare County
APN Book 293 Page 230 Parcel 01
Township 22S Range 23E Section 25
Latitude 35 DEG. 59 MIN. 8.66 SEC. NORTH Longitude 119 DEG. 26 MIN. 30.18 SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance Of Well from Roads Buildings, Fences, Rivers etc and attach map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (X)

X NEW WELL
___ MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (X)
WATER SUPPLY
X Domestic ___ Public
X Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION -
OTHER (SPECIFY) ___

TOTAL DEPTH OF BORING 1160 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1140 (Feet)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER Unknown (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 328.95 *(Ft.)* & DATE MEASURED 9/30/08-10/3/08
ESTIMATED YIELD 2075 (GPM) & TEST TYPE Step and constant pump
TEST LENGTH 35 (Hrs.) TOTAL DRAWDOWN 74.08 *(Ft.)*
* *May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (inches)	CASING (S) TYPE (-') BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	OUTSIDE DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
860 900	26		X			Steel	16	.312	.060 Full Flow
900 940	26	X				Steel	16	.375	
940 960	26		X			Steel	16	.312	.060 Full Flow
960 1020	26	X				Steel	16	.375	
1020 1120	26		X			Steel	16	.312	.060 Full Flow
1120 1140	26	X				Steel-sump	16	.375	

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL TYPE CE-MENT (X)	BEN-TONITE (X)	FILL (X)	FILTER PACK (TYPE/SIZE)

ATTACHMENTS (X)

X Geologic Log
X Well Construction Diagram
Geophysical Log(s)
Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Layne Christensen Company (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 11001 Etiwanda Ave CITY Fontana STATE Ca ZIP 92337
Signed [signature] (WELL DRILLER OR AUTHORIZED REPRESENTATIVE) DATE SIGNED 10/7/08
C-57 LICENSE NUMBER 510011

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD01862

TRIPLICATE
Owner's Copy

Page 1 of 2

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. E062799

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. E-21
Date Work Began 10/27/2007, Ended 11/16/2007
Local Permit Agency TULARE COUNTY
Permit No. 07-0479 Permit Date 10/2/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)
DRILLING METHOD REVERSE FLUID

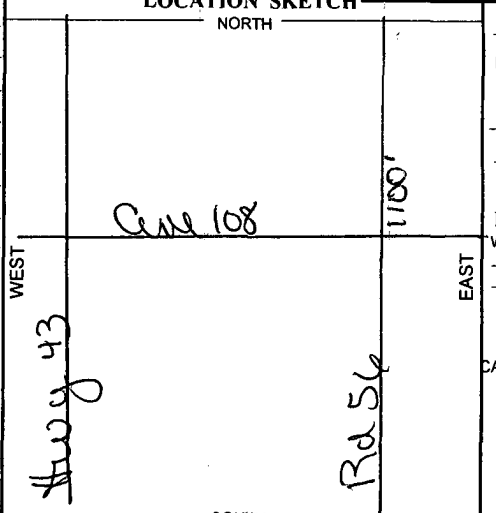
DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0	10	SANDY BROWN CLAY
10	13	MEDIUM SAND
13	28	SANDY BROWN CLAY
28	37	MEDIUM SAND
37	50	SANDY BROWN CLAY
50	67	CLAY
67	94	FINE SAND
94	107	CLAY
107	111	SAND
111	146	CLAY
146	164	SANDY CLAY
164	192	SAND
192	207	SANDY CLAY
207	239	SAND
239	268	CLAY
268	304	SANDY CLAY
304	309	SAND
309	332	CLAY
332	351	SAND
351	356	SANDY CLAY
356	401	SAND
401	426	SANDY CLAY
426	447	SAND
447	454	CLAY
454	470	SAND
470	492	SANDY CLAY
492	596	CLAY
596	616	SANDY CLAY
616	633	CLAY
633	643	SAND

TOTAL DEPTH OF BORING 1220 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1200 (Feet)

WELL OWNER
Name ANGIOLA WATER DIST.
Mailing Address 944 WHITLEY AVE. SUITE
CORCORAN CA 93212
CITY STATE ZIP

WELL LOCATION
Address AVE 108, & HWY 43
City ANGIOLA CA
County TULARE
APN Book 293 Page 230 Parcel 001
Township 22 S Range 23 E Section 25
Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

ACTIVITY (✓)
✓ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)
— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)
WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial
MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER — (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL — (Ft.) & DATE MEASURED
ESTIMATED YIELD * — (GPM) & TEST TYPE
TEST LENGTH — (Hrs.) TOTAL DRAWDOWN — (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	34"	5/16"	
0	640	28"	✓				STEEL	16"	3/8"	
640	1200	28"		✓			STEEL	16"	5/16"	.060 DBL

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			SIX SACK
0	600			✓	1/4
600	1220			✓	6 X 16

ATTACHMENTS (✓)
— Geologic Log
✓ Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP
Signed [signature] 11/26/07 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD01824

TRIPLICATE
Owner's Copy

Page 2 of 2

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. E062799

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. E-21
Date Work Began 10/27/2007, Ended 11/16/2007
Local Permit Agency TULARE COUNTY
Permit No. 07-0479 Permit Date 10/2/2007

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)
DRILLING METHOD REVERSE FLUID

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
643	668	SANDY CLAY
668	677	CLAY
677	694	SAND
694	703	CLAY
703	716	SANDY CLAY
716	738	SAND
738	743	CLAY
743	760	SANDY CLAY
760	794	SAND
794	799	CLAY
799	811	SANDY CLAY
811	863	SAND
863	882	CLAY
882	910	SAND
910	932	CLAY
932	941	SAND
941	962	SANDY CLAY
962	991	SAND
991	1002	CLAY
1002	1013	SANDY CLAY
1013	1018	CLAY
1018	1026	SAND
1026	1063	SANDY CLAY
1063	1091	SAND
1091	1099	CLAY
1099	1126	SAND
1126	1150	CLAY
1150	1164	SANDY CLAY
1164	1176	SAND
1176	1220	CLAY

TOTAL DEPTH OF BORING 1220 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1200 (Feet)

WELL OWNER

Name ANGIOLA WATER DIST.
Mailing Address 944 WHITLEY AVE. SUITE
CORCORAN CA 93212
CITY STATE ZIP

WELL LOCATION

Address AVE 108, & HWY 43
City ANGIOLA CA
County TULARE
APN Book 293 Page 230 Parcel 001
Township 22 S Range 23 E Section 25
Latitude DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)
✓ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)
— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"

PLANNED USES (✓)
WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial
MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER ____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL ____ (Ft.) & DATE MEASURED ____
ESTIMATED YIELD * ____ (GPM) & TEST TYPE ____
TEST LENGTH ____ (Hrs.) TOTAL DRAWDOWN ____ (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	34"	5/16"	
0	640	28"	✓				STEEL	16"	3/8"	
640	1200	28"		✓			STEEL	16"	5/16"	.060 DBL

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	✓			SIX SACK
0	600			✓	1/4
600	1220			✓	6 X 16

ATTACHMENTS (✓)

— Geologic Log
✓ Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other ____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP

Signed ____ 11/26/07 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AWD01825

Appendix C

Groundwater Level Field Measurement Form

Sheet ______ of ________

Field Groundwater Level Measurements

Well Name/ Number:	Checked By:
Project:	Field Personnel:

Well Name/Owner	Date	Time	Reference Point Elevation (ft)	Depth To Groundwater (ft)	Groundwater Elevation (ft)	Instrument Type

Appendix D

Chalk/Tape Groundwater Level Measurement

Sheet ______ of ________

Chalk/Tape Groundwater Level Measurements

Recorded By:

A	B	C	D	E	F	G	H
Well Name/Owner	Date	Time	Reference Point Elevation (ft)	Tape Measurement at Reference Point	Chalk Measurement	Depth To Groundwater (ft) (E - F)	Groundwater Elevation (ft) (D - G)

Thomas Harder & Co.
Groundwater Consulting

Appendix E

Quality Assurance Project Plan

ELEMENT 1: TITLE AND APPROVAL SHEETS

Draft Tule Basin Water Quality Coalition

Surface Water and Groundwater Monitoring Plan
Quality Assurance Program Plan

Revision
July 1, 2019

Approvals

R.L. Schafer, RCE, RAE — Date
Tule Basin Water Quality Coalition
Program Coordinator

David De Groot, RCE — Date
4Creeks, Inc.
Project Manager, Technical Lead

Michelle Parker — Date
R.L Schafer & Associates
Quality Assurance Manager, Laboratory Coordinator

Belinda C. Vega, Laboratory Director — Date
BSK Associates
Laboratory Program Manager

Draft Tule Basin Water Quality Coalition

Surface Water Monitoring Plan
Quality Assurance Program Plan

Revision
July 1, 2019

Approvals, cont.

David Sholes, Non-Point Source/AG Planning Date
California Regional Water Quality Control Board
QAPP Review

Renee Spears, Quality Assurance Officer Date
State Water Resources Control Board
QAPP Review

Element 2: TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES