

Applicant Letter - Exhibits 1-3

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LATE
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Brianda Negrete

From: Steinfeld, Amy <ASteinfeld@bhfs.com>
Sent: Friday, October 28, 2022 11:49 AM
To: sbcob
Cc: Laurel Fisher Perez (laurel@sepps.com); Haley Kolosieke (Haley@sepps.com); Vosburg, Alia; Dargel, Joseph
Subject: Applicant's (Nojoqui Farms) Letter to Board of Supervisors in Support of LUP (19LUP-00000-00530) for Nov. 1, 2022 Hearing
Attachments: Nojoqui Farms_ Letter to Board of Supervisors(24770790.1).pdf; Exhibit 1, WaterSource&WaterDemandReport_June 2022.pdf; Exhibit 1(a), Water Appendix 2022 to Water Report.pdf; Exhibit 2, WaterQualityMemo.pdf; Exhibit 3, Response to Newton, Aug2022.pdf

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Dear Clerk of the Board,

Attached please find the Applicant's Letter to the Board of Supervisors and Exhibits 1-3 to distribute to the Supervisors. I will send the remaining exhibits in the next email due to size.

Please confirm receipt. Thank you.

Best regards, Amy

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Brownstein - we're all in.

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October 28, 2022

Amy Steinfeld
Attorney at Law
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VIA E-MAIL SBCOB@COUNTYOFSB.ORG

Santa Barbara County Board of Supervisors
Attention: Clerk of the Board
123 E. Anapamu St.
Santa Barbara, CA 93101

RE: Applicant Response to Cannabis LUP Appeal of Nojoqui Farms – Cannabis Cultivation (19LUP-00000-00530) by Restoration Oaks and Sierra Botanicals

Dear Chair Hartmann and Honorable Supervisors:

On behalf of Shannon Conn and the World is Yours, LLC¹, Project Applicant and Operator,² (“Applicant”), we submit this letter and the enclosed documents in support of the Land Use Permit (“LUP”), Permit No. 19LUP-00000-00530, approved by the County Planning and Development Department (“P&D”) on August 19, 2021 for the Nojoqui Farms’ Farm (“Farm” or “Project”). By this letter, the Applicant responds to the appeals filed by Edward M. Seaman on behalf of Restoration Oaks³ and Sierra Botanicals, the neighboring cannabis farm (“Appellants”). We respectfully request that the Board of Supervisors (“Board”) support the Planning Commission’s (“PC”) **unanimous (4-0) approval**⁴ of the LUP and deny the appeals, which have been pending for over one year.

We are pleased that Appellants have narrowed their appeal issues to focus solely on water. To address these concerns, at the PC hearing Applicant **voluntarily agreed** to restrict its water use from the Main Well to 26.6 acre-feet per year (AFY), as will be confirmed by the Applicant in a biannual submittal of

¹ The Applicant filed a complete Business License application with the County CEO’s Office, and secured the acreage within the Unincorporated Santa Barbara County Cap under the entity “The World Is Yours, LLC.”

² Shannon Conn is currently in escrow to purchase APN 083-430-014 (53-acre, AG-II-40 zoned Property where the Project will be located) and the neighboring Moonshine Canyon parcel (083-430-031), which are collectively referred to as Nojoqui Farms or the Farm.

³ The Applicant’s August 5, 2022 Letter to the PC (and the attached exhibits) responded to the numerous false claims in Restoration Oaks’ Petition to Ban Cannabis, which was submitted to the County, along with the Restoration Oaks’ Water Memorandum by Brad Newton. For efficiency and to limit the size of this submittal, we will simply incorporate our prior responses into this letter. (See County File for Nojoqui Farms’ PC Appeal heard on August 10, 2022.)

⁴ Commissioner Martinez recused himself from participating in the PC hearing.

its well meter log to the County. This new restriction was added to the LUP's Project Description and is binding on the Applicant.⁵ Applicant's **two hydrologists** (Katherman and Walch⁶) have also responded to the unfounded claims in Restoration Oak's prior water memorandum (authored by Brad Newton) and those made by Sierra Botanicals' attorney and Jordan Kear. (See **Exhibits 1, 1a, 2, 3, and 4.**)

The Applicant understands that Restoration Oaks is concerned that cannabis cultivation will impact surrounding agricultural and tourism uses⁷ due to alleged increases in water usage. However, the Project will use less water than historical agricultural operations on the Farm. Additionally, the Project's design features will mitigate any other potential Project impacts. The Applicant also understands that Sierra Botanicals, the neighboring cannabis farm, has unsubstantiated concerns about impacts to Nojoqui Creek. But these concerns are misplaced because the Project **will only use groundwater** to irrigate the cannabis crops and therefore will not impact the Nojoqui or Moonshine Creeks, or the associated riparian habitat.

The Applicant has taken proactive steps to work with their neighbors to explain how the Project is simply a change in crop that will offer environmental and economic benefits to the broader community while maintaining the property in productive agricultural use. For example, the Applicant has already removed almost 4 acres of outdoor cannabis cultivation from its approved plans. Cannabis cultivation is an agricultural activity permitted on AG-II zoned properties and is consistent with (and less intensive than) the commercial agricultural activities which have occurred on the Farm for

⁵ "The Applicant shall provide County P&D staff, a well meter log of the Main Well that serves the cannabis cultivation project prior to commencement of use and biannually thereafter for the life of the project. The use of the well is limited to 26.6 acre-feet per year (AFY), as confirmed by the well meter log." (See County LUP Action Letter, Project Description, p. 2.)

⁶ Mr. Katherman's hydrology reports were peer reviewed by local geologist, Carolyn Walch who confirmed his findings. Ms. Walch has extensive groundwater experience. (See CV attached to **Exhibit 4.**)

⁷ With respect to the proximity of the proposed cannabis cultivation to Appellant Restoration Oaks' Blueberry Picking Operation (U-Pick), retreat facilities and wedding and event facilities, it is important to note that Appellant's operation is **not a permitted business** according to the County's records for this ranch. While Restoration Oaks claims it is in the process of applying for permits for a large project, the historical and current operations, including the retreat center and weddings, are not permitted even though by Restoration Oak's own admission, over 100,000 tourists visit his blueberry operation and 2,000 people attend farm-stay vacation retreats annually. (See Restoration Oaks Planning Commission Appeal Attachment, p. 1.) In addition, Appellant's website states: "*What sets us apart are our overnight accommodations for up to 24 people, paired with the beautiful "blank slate", rustic outdoor spaces to create your dream wedding for up to 150 guests. Rehearsal dinner, wedding ceremony & reception... all in one beautiful, rustic location.*" (See **Exhibit 5**, Restoration Oaks Website and Wedding Reviews, accessed on 10/27/2022.)

decades. In contrast to Appellants' claims, the Project will allow agricultural activities to sustainably continue on the Farm.

I. PROJECT BACKGROUND AND HISTORY

The Project is located on a 53-acre, AG-II-40 zoned property which was continuously used for commercial organic farming and processing operations since the 1990s. The Applicant now requests a land use permit to allow up to 22.10 acres of cannabis operations, which includes 20.67 acres of outdoor cannabis cultivation within 15-foot high hoops, 1.20 acres of nursery cultivation within 15-foot high hoops, and 0.23 acres of processing.

The Project will be designed to mitigate any potential impacts. For instance, the Project will outfit its 10,000 square foot (sf) processing building with an advanced carbon filtration and HVAC system to mitigate any odors produced. The Project will also include substantial setbacks including a 100 foot setback between the cannabis operation and the edge of any riparian habitat. Finally, the Project will utilize existing dense vegetation along the 101 Highway (hwy) and plant additional landscape to screen the operation from public views and physically disperse odors.

A. PROJECT HIGHLIGHTS

- The 21.87 acres (ac) (**recently reduced by nearly 4 acres**) of cultivated cannabis takes up less than 50% of the 53 ac property.
- The Project will reduce historic water use from a well that has been continuously used since the 1960s; **no surface water will be used**. This Project will reduce the historically irrigated acreage of this farm.
- During the PC hearing, Applicant **voluntarily agreed to restrict water use** from the main well to 26.6 AFY, less than half of historic pumping. This will be achieved through a conservative irrigation schedule that takes into account the clay nature of the soil (retains water), a state-of-the-art irrigation system, and the use of hoop houses to retain soil moisture and prevent evapotranspiration.
- Two additional wells in different locations were added to the Project as backup wells.⁸

⁸ No limitations need be placed on the backup wells because they are located in deeper formations and are dispersed from the Main Well and other property owners.

- The Project is approximately 4 miles south of Buellton and 3 miles from Solvang and is surrounded by other agriculturally-zoned properties. There are no nearby sensitive receptors (schools, day cares, youth centers or residentially zoned properties).
- The processing facility will incorporate the best-available odor controlling technology and will be shielded by landscaping. The parking lot and nursery (non-odor activities) are sited closer to the property line to further avoid odors. The entire property is sited in a small depression and surrounded by existing vegetation, which will shield the Project from the 101 hwy and further reduce odors.
- New structures will be very minimal: a 10,000 sf processing and storage facility and a 30,000 gallon water storage tank for fire protection.
- The Project was carefully designed to provide a setback from the edge of the proposed cultivation and the property line, and a 100 foot setback from any riparian habitat.
- The Project will focus on the cultivation and processing of unique medical cannabis and will donate money to veterans.
- The Project will have numerous environmental benefits as compared to the historic onsite farming operations which used significantly more employees, water, total land area, and fertilizers.
- The Project's pest management plan has been approved by the County's Agricultural Commissioner, and is in compliance with the state's strict regulations for cannabis cultivation.
- The Farm has been Organically and GAP USDA certified.⁹
- With the exception of Sierra Botanicals' project, this is the only other cannabis project in this region on the County's Eligibility list.

B. Project Operators

Shannon Conn, the operator of the Project, is a resident of the County who grew up in the City of Santa Barbara. She currently resides in a small home adjacent to the Farm, where she will continue to live in order to operate the cannabis farm. Shannon and her 25 year old son, Darren Cameron will be operating the project. Shannon and her son have deep relationships in the cannabis community and works closely with High Times Magazine.

⁹ [Good Agricultural Practices \(GAP\) Audits | Agricultural Marketing Service \(usda.gov\)](#).

Shannon's family owned Carter Bait and Tackle in the Santa Barbara Harbor in the 1970's. She worked together with her parents and sister to keep the business afloat. She also has a long standing history with real estate and raising horses in Santa Barbara County.

In 2009, Shannon first tried medical cannabis when she was diagnosed with seizures from a rare medical condition because conventional medication left her feeling emotionless. As a mother, being dependent on and potentially developing an addiction to pharmaceutical drugs scared Shannon. Thus, Shannon chose to treat her medical condition with medicinal cannabis. The results were miraculous and it was clear that medical cannabis saved her life.

As a result of her experience, Shannon and her son are entering the cannabis industry to grow medicinal cannabis. Once operational, they will donate funds to cancer care groups and also the Wounded Warriors Program¹⁰ which works with veterans. They will also be developing their own strains and genetics dedicated to treating disease.

Shannon was blessed with the opportunity to purchase Nojoqui Farms, a GAP certified, organic Farm from the current owners, Sunburst, who share a similar love for the land. She feels immense gratitude to have the opportunity to create a future for her son and to give back to the community. As part of the process, Shannon has gathered a group of individuals who are passionate about farming the land and she's done countless hours of research to get where she is today. (See PC and BOS Project letters of support, on file with County.)

C. Farm History

In 1991, the Farm (also known as Nojoqui Farms) became an organic farm. For over 30 years, the current Farm landowner and seller, Sunburst, has been involved in organic farming and natural foods enterprises. Before that, the Farm had been a horse pasture, so the soil was ideal for farming. In 1991, they set out to "produce an abundance of organically grown produce by conscientiously practicing sustainable agriculture." They committed to farm in a manner that was respectful of the land, the workers, and the broader community. Sunburst farmed on over 53 acres, growing a variety of lettuces, squashes, tomatoes, kale and peppers up until 2020, when they decided to relocate and sell the farm. They proudly ran an extensive composting program, which kept organic matter out of the landfills and ensured healthy, nutrient-rich soils. Sunburst has relocated its operations 13 miles southeast of Lompoc and is in the process of selling the Farm to Shannon.

D. Neighborhood Outreach

Throughout the process to permit the Project, the Applicant has quickly responded to concerned members of the community and the Appellants. Applicant and her agents have met with Mr. Seaman

¹⁰ See [Veterans Charity - Non Profit Organization for Veterans | WWP \(woundedwarriorproject.org\)](https://www.woundedwarriorproject.org).

on several occasions to better understand and to address his concerns. In addition, Applicant's counsel has reached out to Sierra Botanicals' counsel on several occasions to do the same. Shannon has also reached out to all of the adjacent neighbors to provide them with information about the Project. (See PC Letter of Support from Sundip Shah (neighboring property owner).) All the aforementioned actions are voluntary and beyond any notification requirements of the County.

II. APPEAL ISSUES

A. The Project Will Reduce Overall Historic Water Use

Restoration Oaks argues that the Project would impact other water users in the groundwater basin, including the well it "leases" water from, which is located 1200 feet away. However, neither appellant provides any specific details about their own water source or how it may be impacted by this project. For context, it is important to note that the Farm does not overlie a recognized groundwater basin by the California Department of Water Resources (DWR) or the County. This means management of the basin is not subject to the Sustainable Groundwater Management Act (SGMA), which governs overdrafted basins.

We understand that Appellant may be concerned about water resources, but whether cannabis or traditional crops are in cultivation, this Project will be drawing from the same groundwater aquifer as they have historically, which has not impacted neighboring farms. During the PC hearing, we confirmed that Sunburst never received any complaints about its water use. Further, Appellants' generalized water concerns are not a cannabis-specific issue. Nonetheless, Applicant has carefully designed this Project to use a minimal amount of water as compared to historic farming.

This Project's water use will not impact Restoration Oaks' property because it does not have its own groundwater well¹¹ and due to the physical location of the Project's well 1200 feet downstream from the shared Restoration Oaks' well, any pumping cannot physically impact their water supply. The Project will use the well referred to as the "Main Well," which is located on Sierra Botanicals property but was granted to Sunburst in the 1960's when the Farm was subdivided in order to maintain this water source for the larger Farm. This well has been used exclusively by Sunburst via an **existing easement** to irrigate their 53-acre property for over 30 years (and decades before that for horse operations). (See **Exhibit 6**, title report.) Contrary to Sierra Botanicals' claims, the Main Well is not shared with Sierra Botanicals. In addition, Applicant has reached out many times to Sierra Botanicals to understand their water concerns, but Sierra Botanicals has never shared the location of their well with Applicant, and Sierra Botanicals' own cannabis project site plans on file with the County do not show that they are using a permitted well to irrigate cannabis.

¹¹ "In 2016, with no cannabis sites, the well **shared** between Restoration Oaks Farm and Folded Hills Farm located right next to Nojoqui Creek went dry." (Restoration Oaks' Petition.)

Cannabis cultivation will reduce the total water demand of this Farm and the local groundwater basin for two reasons: (1) Cannabis will replace water intensive crops; and (2) Outdoor cannabis cultivation requires less net irrigated acreage to maintain a viable farm compared to the historical crops and growing practices. In other words, a cannabis farmer not only applies less water to each acre but irrigates fewer acres in total. Nojoqui Farms has historically farmed organic crops with an average water consumption of 106 AFY on its two parcels. The total water consumption for the cannabis cultivation is estimated to at 26.2 AFY. Along with the estimated water demand for the landscaping of 0.2 AFY and the projected domestic usage of 0.2 AFY, the total project water demand is 26.6 AFY. **Consequently, this projected demand for the main Nojoqui parcel (APN 083-430-014) is approximately 50% of the historical water consumption (51.5 AFY) over the last 10 years.** Because this water restriction has been added to the LUP, the County will ensure that Applicant never extracts more than 26.6 AFY from this well. Further, this Project's water use will be subject to review by the California Department of Fish and Wildlife (CDFW), who will require Applicant to submit regular well monitoring reports.

Appellant also argues that the Applicant should specify the amount of water to be used and that water usage should be restricted so not to impact other groundwater users. The Applicant has done exactly this through agreeing to limits its water use in the LUP's Project Description, and will notify the state agencies with jurisdiction over water as part of the state licensing application process and related procedural requirements. In fact, cannabis cultivation faces the most stringent regulations regarding the source and timing of water use. In California, legal cannabis effectively cannot be irrigated with surface water, even if a farm already holds an existing surface water right that was historically used to irrigate that property. During the dry period (April 1 through Oct. 31), cultivators may only irrigate using stored water or groundwater. **This Project will rely only on groundwater to irrigate cannabis so the State's surface water restrictions are irrelevant here.**

In sum, the appellant's argument that the Project will have significant impacts on surrounding water users is factually flawed given that cannabis cultivation would replace more water intensive historic farming practices. Further, Appellant's concerns regarding restricting water usage have been addressed through Applicant's voluntary water restrictions that they requested the County add to their LUP, along with their Water Conservation Plan and the State's restrictions on cannabis water usage.

B. The Project Will Not Divert Surface Water and Will Not Impact Riparian Habitat or Species

Appellant claims the Project's wells will produce "surface water" and therefore, be subject to the State Water Resources Control Board's ("State Board") Cannabis Cultivation Policy. Appellant is wrong for the following reasons.

The State Board does not have permitting jurisdiction over production of percolating groundwater. (See Wat. Code, §§ 1200, 1201.) The State Board's authority is limited to surface water and "subterranean streams flowing through known and definite channels." (*Ibid.*) Groundwater is presumed to be percolating groundwater, and not a subterranean stream; the burden of proving subsurface water in a subterranean stream rests with the party asserting such position. (*Los Angeles v. Pomeroy* (1899) 124 Cal. 597, 628, 634; see also *North Gualala Water Co. v. State Water Resources Control Bd.* (2006) 139 Cal.App.4th 1577, 1593.)

The State Board has developed the following four part test for determining whether water produced from a well is surface water: "for groundwater to be classified as a subterranean stream flowing through a known and definite channel, the following physical conditions must exist: (1) A subsurface channel must be present; (2) The channel must have relatively impermeable bed and banks; (3) The course of the channel must be known or capable of being determined by reasonable inference; and (4) Groundwater must be flowing in the channel." (*In re Garrapata Water Co.* (1999) SWRCB Decision 1639, 1999 WL 35019788, at *2.)

As noted above, the Project proposes cultivating cannabis on a property historically irrigated for agriculture. The Main Well has historically produced water from the underlying aquifer. Average water use on the property will decrease with the implementation of this project because of the overall reduction in cultivated acreage, the reduced crop density of cannabis vis-à-vis historical crops, and implementation of state-of-the-art irrigation technology described in the LUP. Even when Sunburst was extracting over 100 AFY from the Main Well, there were no impacts on the local creek.

Appellants misunderstands the law and the facts. First, the detailed and comprehensive Hydrology Report prepared by geologist Charlie Katherman for the Project initially in March 2022 and updated in May and June 2022 found that: there is no "direct connection in the subsurface with the creek surfaces waters." (See **Exhibit 1 and 1(a) June Katherman Hydrology Report, pp. 6, and Exhibits 2 and 3.**) The Hydrology Report goes on to discuss the evidence supporting this determination which includes the following:

- A pump test on the Main Well showing no influence or draw down on the nearby Nojoqui Creek¹²;
- The Main Well's static water level was well below the elevation of the surface water in Nojoqui Creek indicating a lack of direct connection between the subsurface waters and Nojoqui Creek;

¹² This pump test was followed by a 30 minute recovery period with the water level returning to the static water level measured at the beginning of the pump test.

- The Main Well’s mostly impermeable clay layer likely confines subsurface flow from interacting directly with surface waters;
- The significantly different water chemistries between the surface water of Nojoqui Creek and the water-bearing sediment below the confining clay layer indicate that the subsurface water produced by the Main Well is not interacting with the surface waters from Nojoqui Creek;¹³ and
- Conducting the four-part Garrapata test concluded that “the hydrogeological conditions that exist do not meet the Garrapata criteria of Parts b and d.” (**Exhibit 1 and 1(a)**, Hydrology Report, p. 7.)

In other words, the Main Well and the two backup or supplemental wells, will produce percolating groundwater, not water from a “subterranean stream,” and there is no connection between this groundwater and the surface water course.

To further address Appellants’ water concerns, Carolyn Walch, a local geologist with extensive groundwater experience, was hired by Nojoqui Farms to peer review Mr. Katherman’s hydrology reports. After an extensive review of Mr. Katherman’s reports, maps, cross sections, pump tests, and other documents, Ms. Walch found that Mr. Katherman’s reports, findings, and methodologies “were complete and the conclusions well justified.” (See **Exhibit 4**.) She also confirmed that the Project groundwater basin is not part of the regional Santa Ynez groundwater basin, that the estimated cannabis water demand was consistent with other projects in the region, and that the Main well and backup wells are extracting groundwater and are not connected to the local creek systems. (*Id.*)

Moreover, neither appellant has provided any substantial evidence to show that this project will utilize surface water or impact other water supplies. There is no evidence to support a finding that any of the wells will produce water from a subterranean stream or will produce groundwater that is connected to a surface water course. Restoration Oaks’ submitted a hydrology report by Brad Newton, which claims that the Katherman Report does not support a finding the water produced by the Project’s wells is groundwater. Appellant, however, fails to carry its burden to prove the water is surface water and overcome the presumption that water produced from the ground is groundwater. But even so, Appellant is mistaken.

The depths of the wells, the sanitary seals, the elevation of the static water levels in the wells, and the pump test proved that the wells do not directly produce from a subterranean stream of Nojoqui Creek or Moonshine Creek because, if they did, the Creek would have been impacted by the pump test. Further, the fact that there is a confining clay layer above the main well’s water screen indicates wells

¹³ See **Exhibit 2**, Water Quality Report by Katherman.

are not producing from a channel with impermeable bed and banks (part 2 of the test) – i.e., the alluvial aquifer does not have “impermeable bed and banks” as the clay is above the aquifer. And finally, with respect to part 4 of the test, the groundwater does not flow in the direction of Nojoqui Creek; its flow is independent of the Creek. (*North Gualala Water Co. v. SWRCB* (2006) 139 Cal.App.4th 1577, 1585–86 [“the subterranean stream clause of section 1200 cannot properly be construed to grant jurisdiction over a groundwater stream that wanders independently of the banks of the putative channel”].)

In sum, the Project has established that it is not producing surface water and is not subject to the State Board’s Cannabis Cultivation Policy. Appellant has offered no evidence to the contrary and has failed to overcome the presumption that groundwater is treated as such.

In fact, the County does not have jurisdiction to determine this specific issue—i.e., whether the Project’s pumping will fall within the purview of the Cannabis Cultivation Policy. That jurisdiction rests with the State Board in its implementation of the Cannabis Cultivation Policy, which will be required for the Applicant to obtain state cannabis licenses. (See County’s Staff Report.) However, the County can rest assured that the Project will comply with the Policy as both the LUP for the Project and the LUDC mandate compliance.¹⁴ Applicant is also enrolled in the CA Water Boards’ Cannabis General Program, and is committed to submitting Annual Monitoring Reports.

Further, there will be additional checks and balances in place through the state Lake and Streambed Alteration (“LSA”) process. Fish and Game Code section 1602 requires any person, state or local governmental agency, or public utility to notify the California Department of Fish and Wildlife (“CDFW”) prior to beginning any activity that could impact a creek.¹⁵ While we do not believe the Project pumping will impact the local creeks, CDFW is requiring *all* cannabis applicants to apply for an LSA. Within 30 days after the notification is filed, CDFW determines whether the notification package is complete and whether an LSA agreement is required. An LSA agreement is a type of permit that includes measures necessary to protect existing fish and wildlife resources. If CDFW determines an agreement is needed, it will submit a draft agreement for the notifying entity to review no later than 60 days after the notification is complete.¹⁶ An LSA agreement may include measures to protect fish

¹⁴ The PEIR imposes the following mitigation measures to ensure any impacts associated with groundwater production for cannabis cultivation are mitigated to less than significant: (1) Mitigation Measure HWR-1 requires compliance with the State Water Resources Control Board’s (“State Board”) Cannabis Cultivation Policy; and (2) Mitigation Measure HWR-3 requires the preparation of a water conservation landscape and irrigation plan for cultivation projects. (PEIR, pp. 3.8-35-37.) The County has codified these mitigation measures in its Land Use Development Code (§ 35.42.075.D.1.c ¶ 35.42.075.D.1.j) and incorporated them into the Project’s LUP (Conditions 16 & 17).

¹⁵ Fish and Game Code § 1602.

¹⁶ Fish and Game Code § 1603.

and wildlife resources while conducting the project and may also suggest ways to modify the project that would eliminate or reduce impacts to fish and wildlife resources.¹⁷

Once a final LSA agreement is in place, the project described in the notification and covered by the agreement may begin. The notifying entity must comply with the terms of the LSA agreement.¹⁸ In short, Applicant will be applying for an LSA agreement, which will provide agency oversight for this Project. Lastly, due to Appellant concerns over the use of Main Well, the Applicant has updated its Project to include two additional backup wells to serve the Project.¹⁹

Further, the Applicant engaged a County-qualified biologist, David N. Lee, to evaluate the potential for the Project to impact riparian habitat or species. Given the site has been actively cultivated for decades, the cultivation footprint will not be expanded, and no new structures are proposed near the Creek, the biologists concluded “the proposed Project is unlikely to result in any significant impact to the CRLF population in Nojoqui Creek.” Additionally, the Project has built-in several measures to protect biological resources including to avoid any ground disturbing activities within 72 hours of a rain event, and to have a biologist conduct a pre-work survey prior to the installation of hoop structures. In compliance with the County’s LUDC, the Project is also required to install fully-shielded light fixtures, a fencing and wildlife movement plan, and maintain a buffer from the edge of riparian habitat.

III. CONCLUSION

In conclusion, the Project complies with CEQA and the Santa Barbara County LUDC, and is compatible surrounding agricultural operations or the community at large. The Project will have no significant environmental impacts, will not use surface water supplies, will reduce historical groundwater pumping, and will ensure that this farm remains agriculturally productive into the future. We respectfully request that you deny the appeals.

¹⁷ <https://wildlife.ca.gov/Conservation/Environmental-Review/LSA/Q-and-A#2195913-what-happens-after-i-notify>.

¹⁸ Additional information and instructions on the LSA process can be found at: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=3773>.

¹⁹ The productive capacity of the Main Well (150-200 gpm) and the two secondary or backup wells (40-50 gpm) will provide a more than adequate supply of water to meet the estimated project water demand of 26.6 AFY. In fact the capacity of the Main Well alone is sufficient to meet water demand for the proposed three crop cycles per year. (See **Exhibit 1**, Hydrology Report.)

Board of Supervisors
October 28, 2022
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Sincerely,

A handwritten signature in black ink, appearing to read "Amy Steinfeld". The signature is written in a cursive style with a large, looping flourish at the end. The name "Amy Steinfeld" is printed in a standard font directly below the signature.

Amy Steinfeld

Exhibits 1-6

24770790.1

WATER SOURCE & WATER DEMAND (Revised)
NOJOQUI FARM CANNABIS PROJECT
1889 S. Highway 101, Buellton, CA
JUNE, 2022

PROJECT DESCRIPTION

The Nojoqui Farm cannabis project is located approximately 3.5 miles south of the City of Buellton in Santa Barbara County, California (Figures 1A). The project consists of up to 25.93 acres of various cannabis operations, including 21.55 acres of outdoor cultivation under hoops, 2.61 acres of outdoor cultivation without hoops and 1.54 acres of nursery cultivation under hoops. The project will be located on the Nojoqui Farm property (APN 083-430-014) at 1889 US Highway 101, Buellton, California. There is an existing water delivery system that has been in place for over 50 years that delivers water primarily to this property (consisting of 53 acres), but also to the adjacent 33 acre property (083-430-031). These parcels are collectively referred to as the Nojoqui Property. This system consists of three water wells and separate components for agricultural use and for domestic (potable) use.

This memorandum analyzes (1) whether the water system produces water from or impacts Nojoqui Creek, and (2) the overall project water demand. In response to (1), the evidence shows that the water system does not impact Nojoqui Creek but produces water from a groundwater source not a riparian source, and (2) the project water demand is 24.4 acre-feet per year (AFY), which is a significant reduction in the baseline water consumption compared to the historical organic farming operations.

LOCATION

The subject property lies in the southwestern part of Santa Barbara County, California within the east-west trending Santa Rosa Hills, which comprise the foothill area along the north flank of the Santa Ynez Mountains (Figure 1B). The parcels are situated between US Highway 101 on the east and Nojoqui Creek on the west, lying 4 miles south of Buellton and 4 miles north of Gaviota Pass (Figure 2). The area topography varies greatly from 500 feet in the narrow creek floodplains to greater than 2400 feet along the mountain ridges to the south (Figure 4). The two Nojoqui parcels consist of 53 acres and 33 acres respectively; the project will be located

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Water Source & Water Demand

Nojoqui Farm

June 2022

entirely on the 53 acre parcel (083-430-014). The range of elevation for this generally flat-lying property is 560 to 600 feet above sea level. Land use in this area surrounding and including the Nojoqui parcels is primarily row crops, while the more steeply sloping area properties are utilized for grazing.

GEOHYDROLOGY

Geologically, the Nojoqui Farm parcels are located in an east-west trending fold belt that makes up the northern flank of the Santa Ynez Mountains. The area is underlain primarily with consolidated older sediments of the Cretaceous and Mid-Tertiary aged rocks (Figure 5). These Mid-Tertiary rocks, including the Matillja, Cozy Dell, Gaviota and Sacate Formations, typically do not contain large volumes of groundwater, lacking enough porosity and permeability to hold significant water (Figure 6A&6B). However, where these units do contain water is usually associated with overlying groundwater, such as that found in alluvial sediments in rivers, streams and drainages. In the older sediments water quantity is typically smaller and the water quality is fair (non-potable). To the north in the Santa Ynez River Basin the primary water-bearing sediments are usually part of the recent Alluvium and the Plio-Pleistocene Careaga and Paso Robles Formations. However, in the Nojoqui Farm area the sands and gravels of the Careaga and Paso Robles units are absent in the region south of the Santa Ynez Basin having been eroded off and/or never deposited here. Consequently, the primary ground water sources here are the shallow alluvial sediments that overlie the older rocks. Varying in thickness from 10 feet to 200 feet, these alluvial sediments have formed over time due to erosion of the surrounding older rocks and the deposition of eroded clays, silts, sands and gravels into the low-lying areas within the drainages of the local creeks and streams. A regional cross section (Figure 7) shows the disposition of the younger sediments and their relationship to the complex, tectonically folded and faulted older sediments associated with the Santa Ynez Mountain Range to the south. A second north-south cross section shows the local details of the above-mentioned shallow sediments relative to the underlying older rocks (Figure 8).

Hydrologically, the Nojoqui property is located outside of any State Water Resources Control Board designated groundwater basin and is well south (3.5 miles) of the Santa Ynez River Basin. However, the subject land is within a small intermontane basin where ground water is associated with an erosional depression of limited extent containing various thicknesses (10-200 feet) of young, Quaternary alluvial sediments associated with the area's streams, creeks

and drainages. The Nojoqui Farm is bordered on the west by Nojoqui Creek and the east by US Highway 101. The primary ridgeline of the Santa Ynez Mountain Range lies between the subject property and the Pacific Ocean, which directs runoff from the significant drainage to the north toward the Santa Ynez River. The estimated watershed for the Nojoqui Creek is approximately 20 square miles, a fairly large drainage area for a small basin. Consequently, recharge to the area alluvial aquifers is mostly from winter rainfall/runoff and creek water infiltration, as well as some contribution from area irrigation seepage.

Additional details on the local geohydrology, including the well testing, pump testing curves and downhole pump specifications, can be found in the hydrology report prepared for Santa Barbara County Environmental Health Services as a part of the application/permit for a Single Parcel Water System (SPWS) (See Appendix). This SBCEHS hydrology report is available if needed from Santa Barbara County EHS.

WATER SYSTEM SUMMARY

The existing water system for Nojoqui Farm has been in place since the mid-1960's and consists of three water wells and an associated water distribution system as described below. The Nojoqui Farm water system services both the domestic (potable water) side of the system, as well as the agricultural (irrigation) components. The domestic portion of the system was recently permitted with Santa Barbara County as a single parcel water system, which supplies water to two connections, the primary farmhouse and the packing shed/office. The irrigation side of the system is separated from the domestic portion in order to prevent any cross contamination (see plot plan in Appendix). The irrigation system currently reaches across the entirety of the primary Nojoqui parcel (APN 083-430-014) and into the adjoining 33 acre property (APN 083-4430-031) to the north as well, which is also under contract to Nojoqui Farm.

The primary water source for this system is the Main Well, which is located within an easement on a separate parcel, APN 083-430-015, known as the Well Property (Figure 3). This Well Property was subdivided from the Nojoqui Property (APN 083-430-014) in 1964 and included easements for the Main Well and the associated water system pipeline. In 1965 the main farmhouse was built, and the various parts of the water system were constructed over the years to serve both the agricultural and domestic needs of the Nojoqui Property. Based on a review of historical records, it is my understanding that the Main Well has exclusively been used for the Nojoqui Property.

MAIN WELL

The Nojoqui Farm Main Well was drilled in 1964 to a depth of 76 feet. The well was completed with 8-inch steel casing to a depth of 55 feet. The production perforations were steel (Mills) knife cut from 44' to 49', which corresponds to a permeable water zone at the same depth. The standing level or static level following the completion of this well was measured at 30 feet (Well Completion Report in Appendix). However, it is likely that the older sediments from 50 feet to 76 feet are also contributing groundwater to the Main Well's productive capacity, as there is no restriction to potential flow from the bottom of the casing at 55 feet and from the sediments in the open borehole below the casing. A cement sanitary seal was placed in this well from 22 feet to the surface. The primary purpose of this seal is to prevent any surface or near surface water from entering the well and to prevent any potential contamination from wildlife.

A pump capacity test was performed in April of 2020 on the Main Well. The well was pumped continuously for a period of 4 hours at an average flowrate of 100+ gallons per minute (gpm). While the well is capable of producing at a higher rate (approx.. 150-250 gpm), there was no reason to pump the well at a maximum rate since the actual specific capacity of the well was unknown before the testing. The lower flowrate of 100+ gpm was also chosen so as to not overflow the 30,000 gallon storage tank during testing. In addition, Santa Barbara County EHS allows the onsite hydrologist to determine the needed pumping period and pumping rate when a well has a stable pumping rate of over 50 gpm. Likewise, State and County regulations do not allow extracted water during a test to flow on the ground near a riparian area.

The static water level was measured at 12.5 feet and the stable pumping level was 22.8 feet after 4 hours of testing. The well was also produced into the existing storage tank during the test, in order to avoid flowing the well onto the ground and into the riparian area, which is prohibited by both State and County regulations. Four hours of testing resulted in a stable pumping level and at the time was considered adequate to establish the overall capacity of this well to produce water over the long term. A short recovery period of only 30 minutes was observed following the cessation of pumping, as the fluid level rose quickly back to the starting static water level (12.6 feet) (pump Test Data in Appendix).

Due to the proximity of the Main Well to Nojoqui Creek, monitoring of the surface water level in the creek occurred during the pump testing of the Main Well. No significant changes were observed in the creek level other than minor fluctuations (less than ¼ of an inch) that would normally occur during the day due to changes in sunlight, changes in daily temperature and evaporation rate, and changes in atmospheric pressure. The static levels of two nearby wells

were also monitored. A shallow well open to the atmosphere and containing no pump, no piping and no electrical, known as the Wishing Well, is located 80 feet from the Main Well to the northwest. A second idle well (Farmhouse) 700 feet to the northeast behind the primary farm residence of Nojoqui Farm was also monitored. A drop of 0.5 inches in the static level was observed in the Wishing Well, however the static level returned to the beginning level within 5 minutes after pumping stopped.

During testing no change occurred in the Farmhouse Well. A water sample was taken at the end of the Main Well testing and submitted to Fruit Growers Lab for analysis. The water passed for all of the drinking water constituents necessary to establish this water source as potable.

SECONDARY WELLS

Two additional water wells are available to serve the subject Property. These wells are located on an adjacent property to the north, which is a 33 acre parcel (APN 083-430-031) that is also being purchased by the applicant, Nojoqui Farm and is referred to as the Sunburst property. Historically, the wells have been utilized as an irrigation supply for organic farming on both the Nojoqui Farm parcel and the Sunburst parcel and are tied into these lands via an existing easement and pipeline system over Nojoqui Creek. This has allowed water to flow to both parcels, depending on the needed water demand of each parcel. A map of the these well locations and the pipeline system is included in the Appendix.

Known as Moonshine #1 and Moonshine #2, these wells both produce water from the older sediments, not the younger alluvial sediments (Well Completion Reports in Appendix). Moonshine 1 was drilled in November of 1995 to a total depth of 180 feet. The well was completed with 6 inch steel casing run to 180 feet. The perforated or screened interval was 60 feet to 180 feet. A cement sanitary seal was placed from 60 feet to the surface. A 12 hour pump test on this well recovered water at a rate of 50 gallons per minute (gpm). Additionally, the well location is on the edge of the Tertiary Cozy Dell Formation outcrop (surface) so some of the shallow penetrated sediment layers are likely erosional remnants of the older sediments that are not connected to Nojoqui Creek (Well Completion Report in Appendix). The Moonshine #1 is located 500 feet from Nojoqui Creek. The static water level was recorded at 25 feet below grade; well below the elevation of nearby Nojoqui Creek. The Moonshine #2 Well was drilled in October of 2016 to a total depth of 800 feet. The well was completed with 6-inch PVC casing that was landed at 800 feet. The well's screened interval was from 260 to 800 feet

with a 51 foot cement sanitary seal. Consequently, there is no connection to the creek, as the shallow alluvial sediments are cemented off by the seal and therefore are not included in the perforated interval. This well yielded 25 gallons per minute on an abbreviated pump test. Chemical analyses on the water extracted from the Moonshine #2 was performed in 2016 and again in 2020 indicated a decent water quality for agricultural purposes. However, the water would require some treatment in order to be utilized for domestic purposes.

Permitting and planning for an additional back-up well on the Nojoqui parcel (APN 083-430-014) has been completed with an estimated completion date of June 2022. This well has been permitted and planned for the Property and will be located near the idled water well behind the farmhouse. At this time no projected water flowrates or volumes for this future well have been added to the project. The existing wells are more than adequate to meet the project water demand, so this proposed well will only be a back-up for cultivation at Nojoqui Farm.

ORIGIN OF PRODUCED WELL WATER

One of the primary questions being addressed here is whether the water supplied to the Nojoqui Farm operations is surface water or groundwater. The answer is percolating groundwater. The evidence supporting a determination of a groundwater is as follows:

1. The recent pump test on the Main Well showed no influence on the nearby Nojoqui Creek. The creek level and the static levels of two nearby wells were monitored throughout the test period and no significant changes were observed.
2. Following the termination of the Main Well pump test, a 30 minute recovery period was observed with the water level returning to the static level measured at the beginning of the pump test. A failure of the recovered water level to return to the depth of the beginning static level would have indicated a major loss of water from the aquifer and a subsequent drop in the creek level. None was observed.
3. When the Main Well was drilled and completed the static level was 30 feet below grade, which is well below (26 feet) the elevation of the surface water in Nojoqui Creek, indicating a lack of a direct connection in the subsurface with the creek surface waters.

4. The subject Nojoqui Main Well contains a confining clay layer from near surface to 37 feet. This clay layer is mostly impermeable and will not readily transmit water downward into the water-bearing sediments below it. This clay zone likely also confines the subsurface flow from communicating directly with the surface flow (Figure 10).
5. In support of Statement #4 above, there are different water chemistries between the surface water of the creek and the water-bearing sediments below the confining clay layer. The chemical analysis on the creek surface water is pending, but a hand-held Total Dissolved Solids (TDS) meter indicated a TDS or salinity level of 300 parts per million (ppm) versus 860 ppm for the recently tested groundwater being produced from the Main Well. A significantly different value for salinity further indicates that the subsurface water produced by the Main Well is not communicating at this location with the surface waters from the Nojoqui Creek.
6. One of the key tests for determining whether the Nojoqui Well is producing surface water versus groundwater is the four-part Garrapata test (SWRCB), which states that for water flow to be classified as a subterranean stream flowing through a known and definite channel, the following physical conditions must exist: (a) a subsurface channel must be present; (b) the channel must have a relatively impermeable bed and banks; (c) the course of the channel must be known or capable of being determined by reasonable inference; and (d) water must be flowing in the channel.

In the case of the Nojoqui Well the hydrogeological conditions that exist do not meet the Garrapata criteria of Parts b and d. The channel of Nojoqui Creek is underlain by permeable sediments of the Tertiary Sacate/Gaviota Formation, which is water-bearing and productive in area water wells to the north of the subject Nojoqui Main Well; and likely contributes groundwater to the overall flow from the Main Well. As for Part d, the subsurface water within the alluvial sediments penetrated by the Nojoqui Well does not continue flowing north in conjunction with the Nojoqui Creek surface water, which flows north 3.5 miles to the Santa Ynez River. The subsurface water in the alluvial sediments below the confining layer is ponded behind the area's older sediments which outcrop at the surface north of the Nojoqui Main Well. This bathtub effect is shown in the north-south cross section in Figure 10.

HISTORIC WATER DEMAND

Nojoqui Farm was a certified organic farm from 1992 to 2017. The detailed water consumption records for 2010 through 2016 have been reviewed and are incorporated into this report (Appendix). The total water usage from 2010 -2016 averaged 106 AF per year. However, only the water use from the Main Well was recorded as the backup wells, Moonshine #1 and Moonshine #2 did not have flowmeters installed and only were used to irrigate the northern 33 acre parcel. After recent discussion with the former water master for the Nojoqui Farm, it was determined that the Main Well was utilized for irrigation on both the Nojoqui Farm parcel (APN 083-430-014) and the Moonshine Canyon parcel (083-430-031). The total amount of irrigated acreage from 1992 to 2017 varied from 40 acres to 50 acres; 25-28 acres on the primary parcel (APN 083-430-014) and 15-20 acres on the adjacent parcel (APN 083-430-031). The average acreage farmed on the Nojoqui parcel was 28 acres and 15 acres on the Moonshine parcel. However, in the last 10+ years these parcels were only farmed together in years 2010 through 2012. From 2013 through 2020 only the main Nojoqui parcel was farmed. A water consumption chart was prepared that covers 2010 through 2021 in order to determine the water use for only the Nojoqui parcel (APN 083-430-014). **The 10 year average equaled 51.5 acre-feet per year (AFY). The Nojoqui Farm water consumption varied from 1.62 acre-feet per acre (AF/AC) to 3.26 AF/Ac during this time frame. If one eliminates the no farm/no data years, then the 10 year average is 63.3 AFY**

After the death of the lead grower/farm manager in 2017 the organic farming operation ceased to exist. In its place approximately 20-25 acres of oat hay was grown instead of row crops in 2017-2018. Unfortunately, there are no detailed records for water use in those years, but an estimate of 50-75 AFY is being supplied based on a water use factor of 2.5-3.0 AFY/acre for oat hay. The property was farmed in hemp in 2019, but only on a limited basis (5 acres) with an estimated water consumption of 9 AFY. The farm ground was left fallow in 2020.

PROJECTED WATER USE

The recent UC Ag Extension data for water consumption for row crops in Santa Barbara County lists a value of 2.5 acre-feet per year per acre (AFY/Ac) for these crops. San Luis Obispo County utilizes 1.9 AFY/Ac for these same crops. From researching recent water consumption on several area cannabis operations, it appears as though the water demand estimates for cannabis have been grossly overstated at 1.9 to 2.0 AFY/Ac. The recently presented water demand for the CCA project on Santa Rosa Rd. to the Board of Supervisors revealed a demand

factor of approximately 0.50 AFY/AC for two crop cycles or 0.25 AFY/AC per cycle. This project is growing in-ground, similar to the Nojoqui project. This data was based on accurate water metering and recordkeeping and also involved the use of state-of-the-art drip irrigation and mulching for in-ground cultivation. Additionally, a second project also on Santa Rosa Rd., where Katherman Exploration Co. is the hydrologist, has hard data over the last three years of growing cannabis both in-ground and in pots. This data indicates a demand factor of 0.6 – 0.7 AFY/AC again for two crop cycles or 0.3-0.35 AFY/AC per cycle. Consequently, in order to be conservative with a water use estimate for Nojoqui Farm, **the proposed Nojoqui water demand will be 1.2 AFY/AC for three crop cycles or 0.40 AFY/AC per cycle.**

As was mentioned in the original report from March 2022, it critical to understand the soil conditions on Nojoqui Farm and the moisture retention properties that allow a less frequent irrigation schedule for farming; and therefore a lower water demand per acre without the use of artificial or manufactured soils. Through discussions with the former crop managers at Nojoqui, it appears as though the watering frequency for years for the organic row crops was every 4 days rather than every 2-3 days as is the case in the Lompoc and/or Santa Maria Valley farming areas. Consequently, it is critical to understand the predominate soil type at Nojoqui Farm and how it affects water usage.

A specific soil type known in the literature as the Sorrento Series is common to the Nojoqui Creek area and covers the surface of the Nojoqui Farm parcels. This soil horizon is described in the USDA's "Soil Survey of Northern Santa Barbara Area, California" as well drained, grayish-brown sandy loam to clayey loam. These soils occur extensively on floodplains and alluvial fans in several areas of Northern Santa Barbara County. This is key to estimating water demand for the project as this soil type consists of a significant content of fines, i.e. silt and clay (30-40%), and will therefore retain a greater moisture percent than most area soils. This further supports the projected lower water demand for the Nojoqui Farm operations.

From the recent adjustments in total acreage under cultivation listed in the project description the total net acres is now 21.87 acres. All of the cultivation will be under hoops. Therefore, the total water consumption for the cannabis cultivation is 26.24 acre-feet per year (21.87 Ac x 1.2 Af/Ac). Along with the estimated water demand for the landscaping of 0.2 AFY and the projected domestic usage of 0.2 AFY, **the total project water demand stands at 26.64 AFY. Consequently, this projected demand for the main Nojoqui parcel (APN 083-430-014) is approximately 50% of the historical water consumption (51.5 AFY) over the last 10 years.**

WATERSHED FOR NOJOQUI CREEK DRAINAGE

The overall watershed area for the Nojoqui Creek drainage is shown in Figure 9. The area is quite large for a small basin comprising over 20 square miles. Comparing this drainage area to those listed in the USGS Water Supply Paper 1107 (Upson et. al.), the Nojoqui Creek drainage lies between the Jameson Lake (18 sq. mi's) and Gibraltar Dam (219 sq. mi's) areas. However, due to its location near the ridgeline of the Santa Ynez Mountains above Santa Barbara, both Jameson Lake and the area of Nojoqui Creek normally experience higher rainfall amounts. Therefore, the runoff measurements at the Jameson location are more applicable. Consequently, the runoff attributed to the Nojoqui Creek drainage area is assumed to be approximately that of Jameson Lake or an average of 6080 AF annually.

Additionally, the geologic setting for the Nojoqui Creek area is similar to both Jameson and Gibraltar in that runoff occurs over predominately older rocks and sediments of the Cretaceous Jalama Formation up through the Late Miocene Monterey Formation. This results in a greater percentage of total rainfall and runoff occupying the creek, streams and riverbeds and their associated shallow alluvial sediments rather than infiltrating into any available deeper groundwater aquifers, as is the case with the Paso Robles and Careaga Formation in central and northern Santa Barbara County. In addition, this condition of less permeable, older rocks underlying the watershed does lend itself to greater evaporation. Consequently, it is assumed that at least 30% of the total runoff for the Nojoqui Creek drainage is lost to evaporation, 40% is attributed to creek and stream surface flow that continues to the north into the Santa Ynez River Drainage Basin, and 30% is directed into water storage within alluvial sediments or aquifers lying under the Nojoqui Creek drainage area.

CONCLUSIONS

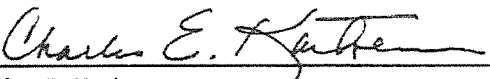
1. There is an existing water delivery system and Main Well that has been serving the Nojoqui Farm properties for over 50 years without any significant impacts to nearby Nojoqui Creek.
2. The Nojoqui Main Well was drilled and completed in December of 1964 for the sole benefit of the Nojoqui Property. The existing water system consists of separate components, one for domestic service and the other for agricultural service.

3. The Main Well is producing groundwater from Recent alluvial sediments as well as older permeable sediments of the Sacate/Gaviota Formation.
4. A pump test on the Main Well produced at a rate of 100 gpm with no detected impacts to the surface waters of Nojoqui Creek 130 feet away. There is significant evidence that confirms that there is minimal influence by the pumping of the Main Well on the surface waters of the creek, including a confining clay layer, differing water chemistries between the surface water and the subsurface water, and differing static levels. In addition, no significant changes occurred in the static levels of two additional wells that were monitored during the testing.
5. The Nojoqui Main Well does not meet the requirements for subterranean flow as determined by the State Water Resources Board in the four-part Garrapata standards; lacking impermeable beds and banks and the subsurface water is not flowing in the channel.
6. The historic water demand for the prior organic farming operations at the Nojoqui parcels (Nojoqui Property) from 2010 through 2016 was 106 AFY; the 10 year average was 82 AFY.
7. The estimated water demand for the Nojoqui Farm cannabis operation is 24.1 AFY. This represents a reduction in water consumption of 75% relative to the historical water demand of the organic farming operation.
8. The productive capacity of the Main Well (150-200 gpm) and the two secondary or backup wells (40-50 gpm) will provide a more than adequate supply of water to meet the estimated project water demand of 26.6 AFY. In fact the capacity of the Main Well alone is sufficient to meet water demand for the proposed three crop cycles per year.

It is important to note that the Nojoqui parcels are not located within the Santa Ynez River Basin (3.5 miles to the north) and are not within any State recognized groundwater basin. Therefore, there isn't a reason to apply the County's Water Thresholds. Additionally, the overall project demand is 50% lower than the recent historical averages for the Nojoqui Property. If the water demand from the years of no farming and no data then the project demand is 60% lower than the historic use.

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Water Source & Water Demand
Nojoqui Farm
June 2022

This report was prepared by Katherman Exploration Co., LLC

 Date 6/21/2022

Charles E. Katherman
CA Prof. Geologist #4069

ProjectWaterSource&Demand_NojoquiFarm_Revised_June2022

Nojoqui Water Consumption Chart

Year	Total AF Pumped	Total Acres Irrigated	Water Use AF/AC	Nojoqui* Net Water Use AF/AC	Nojoqui Net Water Use AFY
2010	114.9	43	2.67	1.74	48.7
2011	164.7	43	3.83	2.49	69.7
2012	121	43	2.81	1.83	100.0
2013	45.3 (a)	28	1.62	1.62	45.3
2014	No Data	N/A	N/A	N/A	N/A
2015	91.2	28	3.26	3.26	91.2
2016	69.8	28	2.49	2.49	69.8
2017	50 (b)	20+	2.50	2.50	50.0
2018	50 (b)	20+	2.50	2.50	50.0
2019	No Crop		N/A	N/A	N/A
2020	9 (c)	5	1.90	1.90	9.00
2021	No Crop		N/A	N/A	N/A
10 Year Average	70.7 AFY		2.17 AF/AC	1.84 AF/AC**	51.5 AFY

Nojoqui Parcel - 53 ACs Total; 28 ACs Farmed
 Moonshine Parcel - 33 ACs Total; 15 ACs Farmed

(a) Only six months of irrigation

(b) Estimated water pumped from water consumption factor for oat hay (2.5 AF / AC)

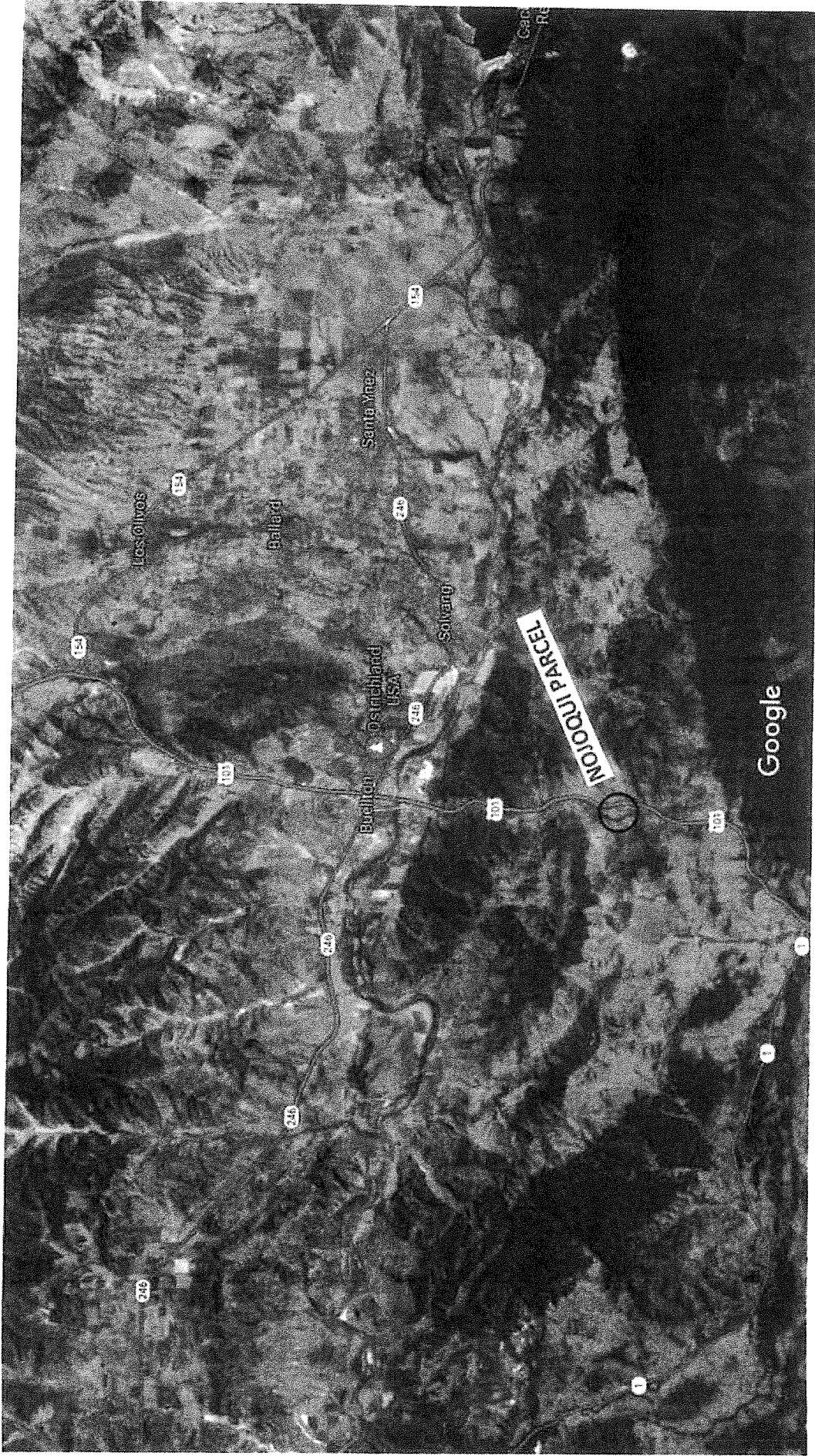
(c) Estimated water from water consumption factor for hemp (1.9 AF / AC)

* Nojoqui Parcel = 65% of total when both parcels farmed

** Eliminating no data / no farming years AF/AC = 2.26 or 63.3 AFY

NOJOQUI REPORT
FIGURES

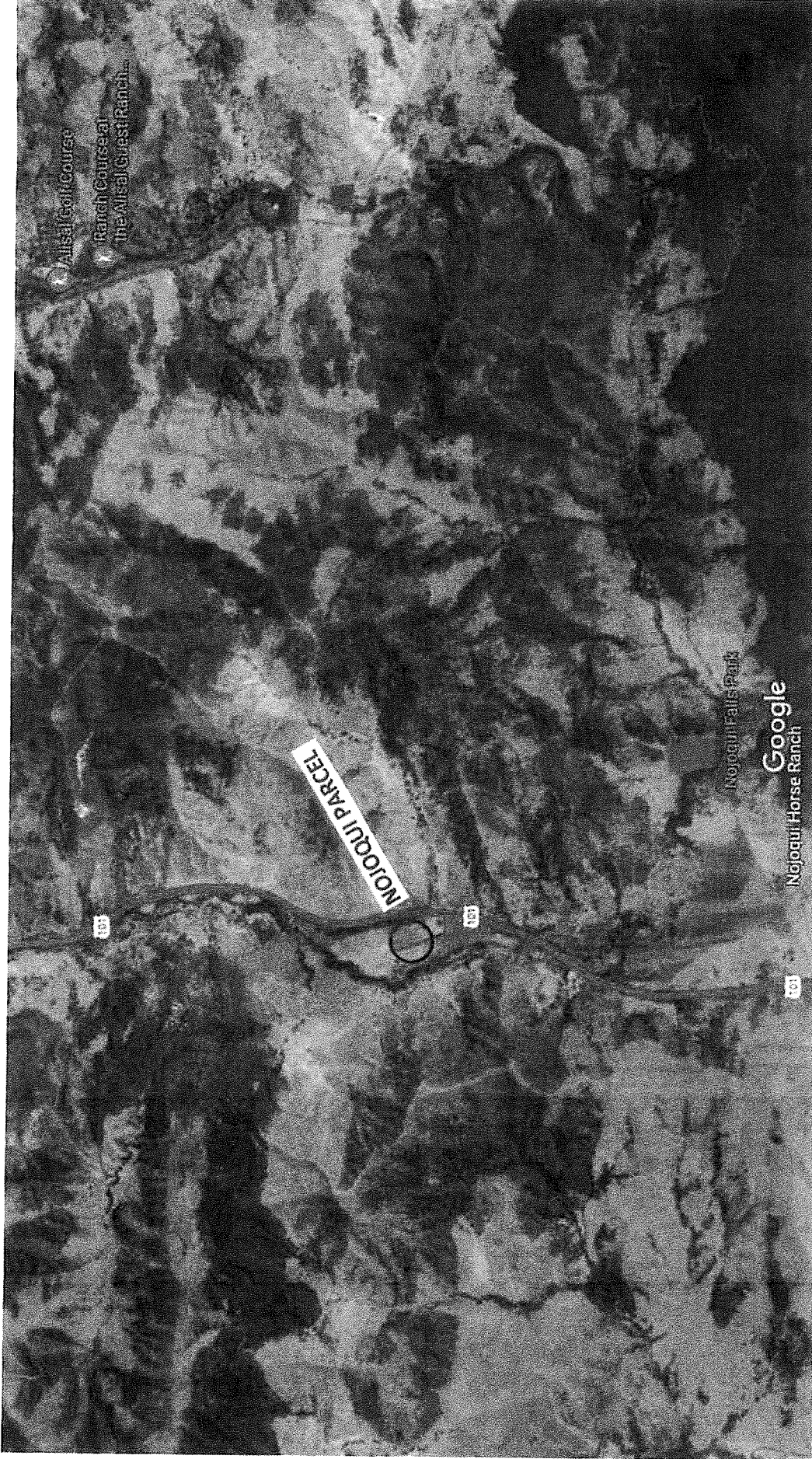
Santa Barbara



Imagery ©2021 TerraMetrics, Map data ©2021 2 mi

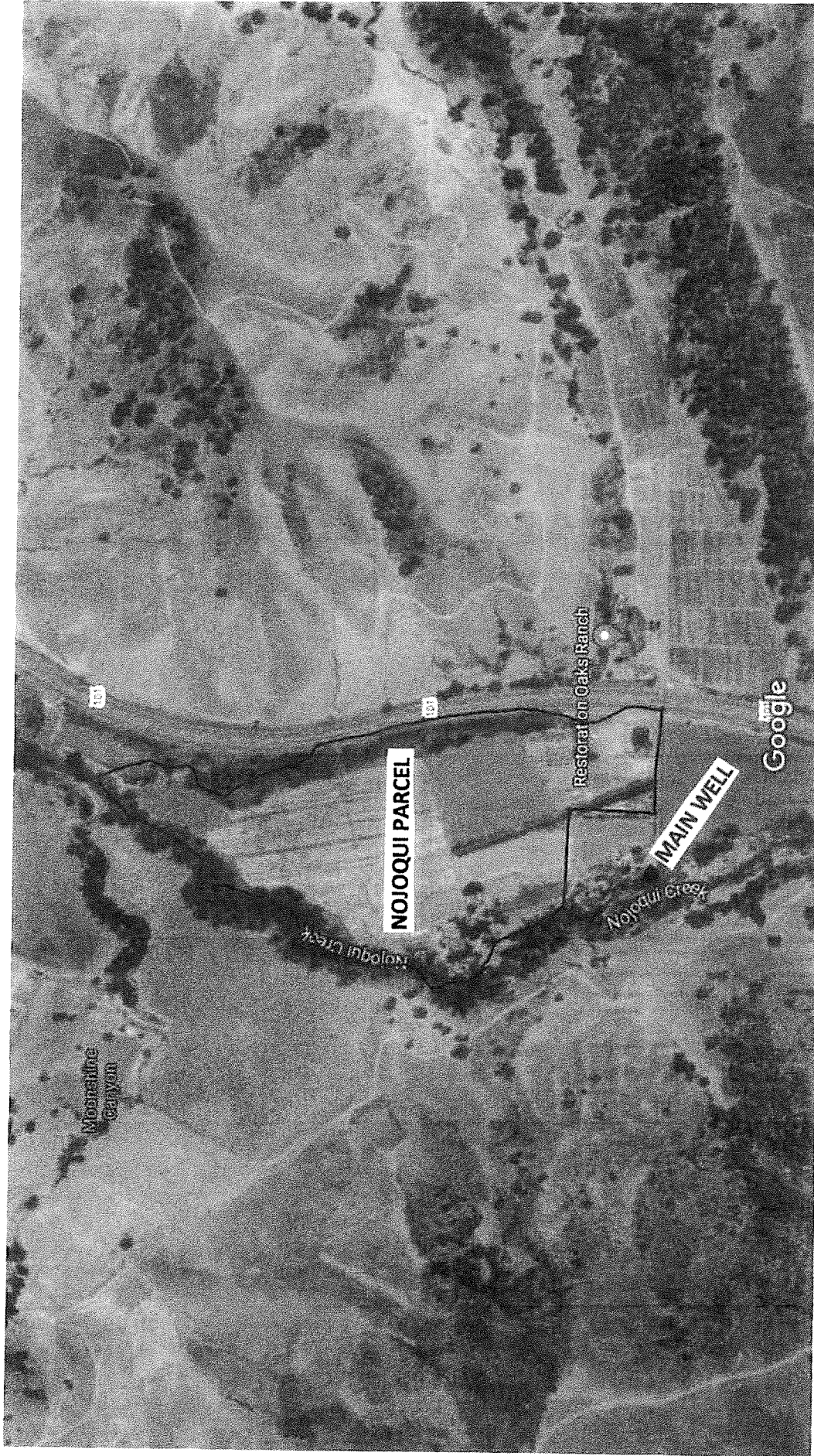
FIGURE 1A
LOCATION MAP

Google Maps Santa Barbara



Imagery ©2021 Data CSUMB SFML, CA OPC, Landsat / Copernicus, Maxar Technologies, USDA Farm Service Agency, Map data ©2021 2000 ft

FIGURE 1B
LOCATION MAP

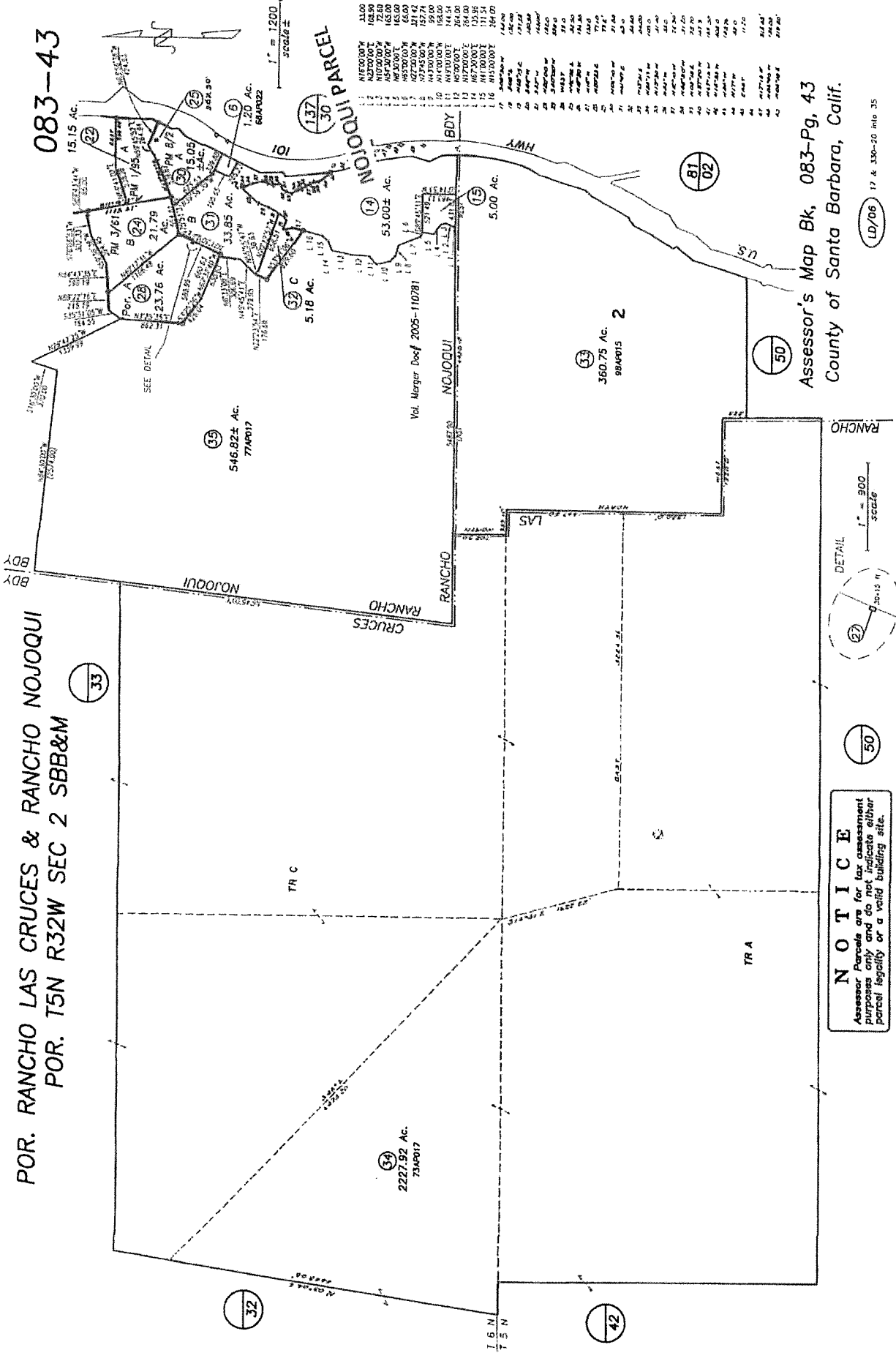


Imagery ©2021 Maxar Technologies, USDA Farm Service Agency, Map data ©2021 500 ft

FIGURE 2
AERIAL VIEW OF PARCEL

POR. RANCHO LAS CRUCES & RANCHO NOJOQUI
 POR. T5N R32W SEC 2 SBB&M

083-43



Assessor's Map Bk, 083-Pg, 43
 County of Santa Barbara, Calif.

LD/06 17 & 130-20 info 35

FIGURE 3
 ASSESSOR PARCEL MAP

NOTICE
 Assessor Parcels are for tax assessment purposes only and do not indicate either parcel legality or a valid building site.

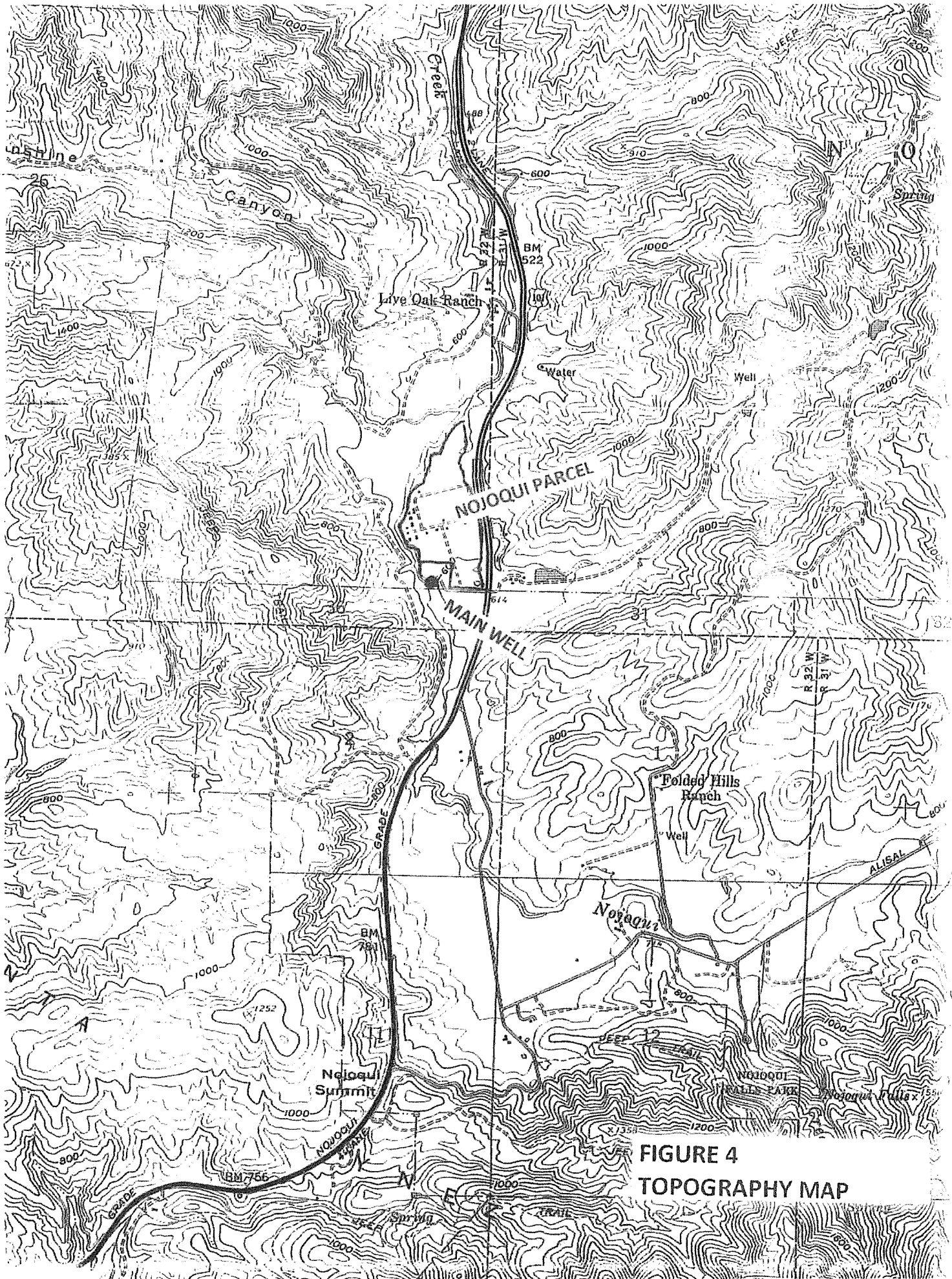


FIGURE 4
TOPOGRAPHY MAP

AGE	FORMATION	LITHOLOGY	THICK.	DESCRIPTION	
Recent	Alluvium		0-100'	Silts and gravels	
Pleistocene upper	Terraces		0-100'	Gravels	
Pliocene lower	Sisquoc		3200'+	Diatomaceous siltstone.	
				Clay shale or diatomaceous mudstone.	
Miocene	Monterey		1000'-3000'	Thin-bedded clay shale or laminated diatomite.	
				Porcelaneous and cherty siliceous shales.	
	lower	Tranquillon		0-1200'	Rhyolite and basalt lava, agglomerate, tuff, bentonite.
		Rincon		0-1700'	Claystone.
		Vaqueros		0-900'	Sandstone & conglomerate.
Oligocene	Sespe / Alegria		0-2000'	Pink to buff sandstone and red and green siltstone. Gray to buff marine sandstone.	
	Gaviota		1600±	Fossiliferous buff sandstone and siltstone.	
	Eocene	Sacate		1000'-1500'	Buff sandstone and clay shale.
upper		Cozy Dell		700'-2000'	Brown clay shale.
		Matilija		0'-2000'	Buff arkosic sandstone.
middle		Anita		0'-1000'	Dark gray clay shale.
	Sierra Blanca		0-50'	Algal limestone lens.	
Cretaceous	Upper	Jalama		2200'+ Buff fine-grained sandstone. Gray siltstone. Buff sandstones and gray clay shales.	
	middle? and Lower	Espada		4000'+ to 6800'+ Dark greenish brown carbonaceous shales and thin sandstones.	
Jurassic	Upper	Honda		1500' Basal pebbly sandstone. Dark greenish brown nodular claystone.	
		Franciscan		? Hard green sandstone and black shale. Serpentine intrusions.	

FIGURE 5 Stratigraphic column, western Santa Ynez Mountains.

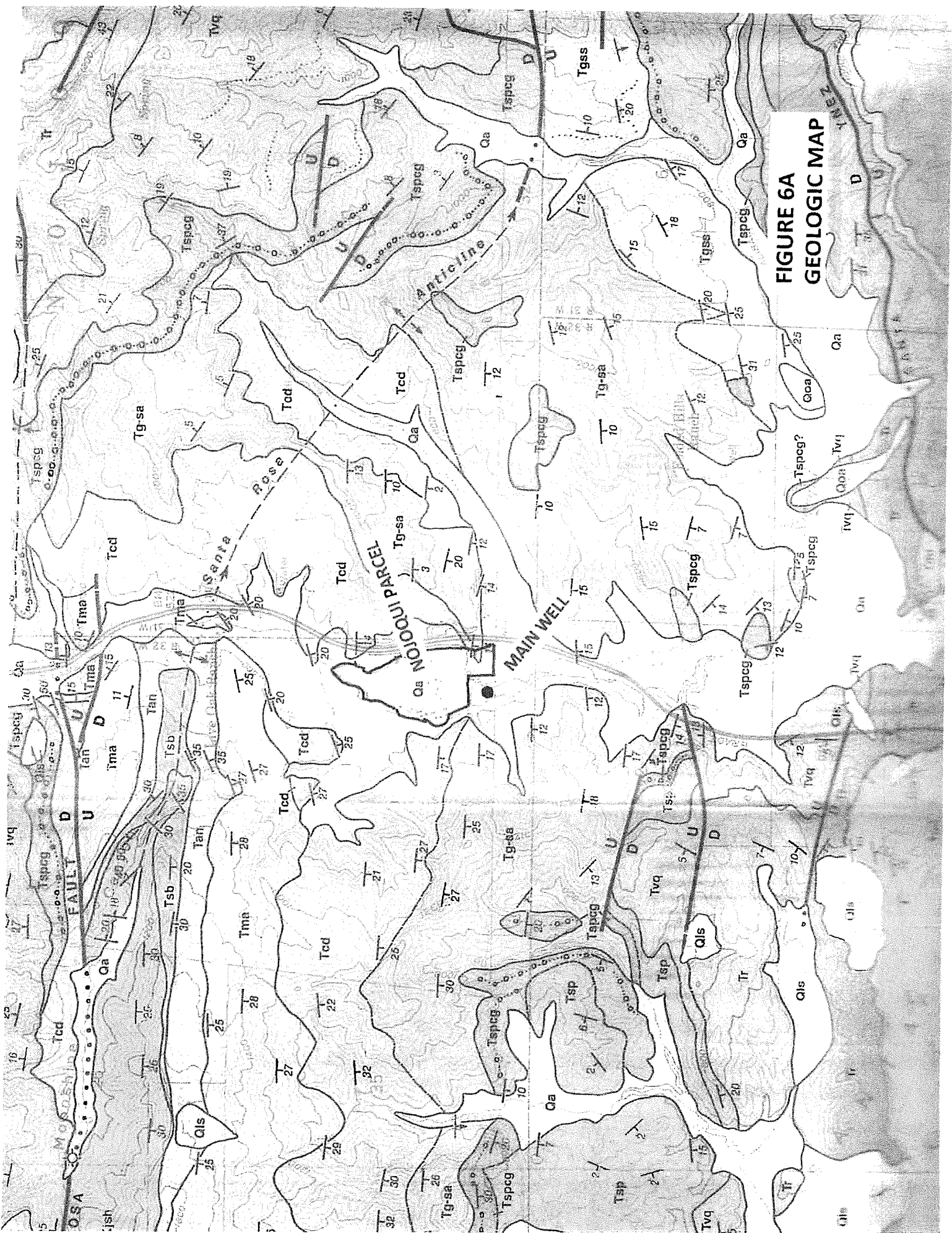
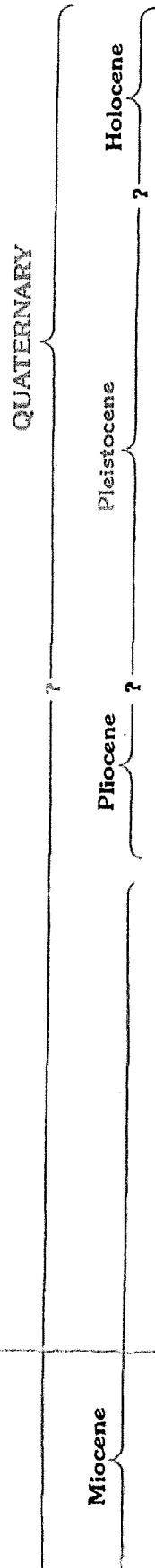


FIGURE 6A
GEOLOGIC MAP

SOLVANG AND GAVIOTA QUADRANGLES

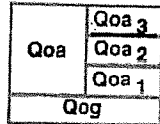
LEGEND

- ★ UNITS PRESENT ONLY NORTH OF SANTA YNEZ FAULT
- ◆ UNITS PRESENT ONLY SOUTH OF SANTA YNEZ FAULT



SURFICIAL SEDIMENTS

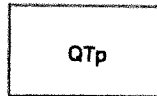
- Qs beach sand deposits
- Qg stream channel deposits of gravel, sand and silt
- Qa valley and floodplain deposits of silt, sand and gravel
- Qls landslide debris



OLDER DISSECTED SURFICIAL SEDIMENTS

- remnants of weakly consolidated stream terrace and alluvial fan deposits of silt, sand and gravel; local unconformities at base
- Qoa undivided former terrace remnants
- Qog cobble-boulder fan gravel and conglomerate deposits composed largely of sandstone detritus
- ★ Qoa₃ lowest, youngest terrace remnants
- ★ Qoa₂ intermediate terrace remnants
- ★ Qoa₁ highest, oldest terrace remnants

UNCONFORMITY



★ PASO ROBLES FORMATION

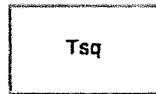
- nonmarine; latest Pliocene to early Pleistocene age
- QTp weakly consolidated, light greenish-gray to reddish alluvial conglomerate, sand, and clay; conglomerate composed largely of Monterey Shale detritus



★ CAREAGA SANDSTONE

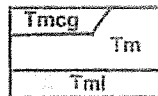
- shallow marine regressive; late Pliocene age
- Tca friable, massive, grayish-yellow, locally pebbly sandstone

UNCONFORMITY



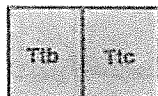
SISQUOC SHALE

- marine; late Miocene age
- Tsq north of Santa Ynez fault: soft white impure diatomite and diatomaceous shale; south of Santa Ynez fault: exposed offshore only, southwest of Gaviota Beach area; Delmontian-Mohnian Stage



MONTEREY SHALE

- marine; early to late Miocene age
- Tmcg conglomerate-braccia of siliceous and cherty shale detritus in tar-soaked sandstone matrix, west of Gaviota Beach
- Tm upper shale unit: white-weathering, thin-bedded, hard, brittle siliceous shale, locally cherty; Mohnian Stage
- Tml lower shale unit: white-weathering, soft, punky, fissile to platy, semi-siliceous shale, containing thin, gray-white calcareous strata; Lucina-Pollia Stage



★ TRANQUILLON VOLCANIC FORMATION

- marine(?); early Miocene age
- Tib west of Buellton: brown-weathering black basaltic flow(?) breccia
- Ttc south of Solvang: weathered, hard brown tuff breccia and bentonitic sandstone in part calcareous, and gray-white algal limestone; uppermost Saucelian Stage

FIGURE 6B
LEGEND FOR GEOLOGY MAP

TERTIARY

Oligocene

UNCONFORMITY



RINCON SHALE

marine; early Miocene age

Tr poorly bedded gray clay shale or claystone; Saucian and upper Zemorrian Stages



VAQUEROS SANDSTONE

shallow marine transgressive; early Miocene age
Tvq north of Santa Ynez fault: greenish-tan sandstone and interbedded greenish siltstone, with local calcareous lenses; south of Santa Ynez fault: light gray calcareous sandstone
*Tvqcg greenish-brown sandstone and pebble conglomerate composed mostly of Franciscan detritus

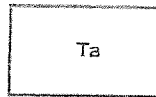


SESPE FORMATION

nonmarine; predominantly Oligocene age

Tsp gray to tan sandstone and green to red siltstone and claystone; basal part intertongues westward with Alegria Formation south of Santa Ynez fault

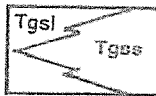
* Tspcg greenish-gray to reddish conglomerate composed mostly of Franciscan and ultramafic (peridotite) detritus; unconformity at base



◆ **ALEGRIA FORMATION**

shallow marine regressive; Oligocene age

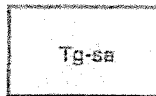
Ta tan, arkosic sandstone and greenish-gray siltstone, locally fossiliferous; intertongues eastward into lowest part of Sespe Formation; lower Zemorrian and Relugian Stage



◆ **GAVIOTA FORMATION**

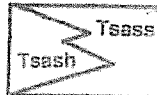
shallow marine regressive; early Oligocene age

Tgss hard, thick bedded tan arkosic sandstone, locally fossiliferous, and minor gray siltstone; Relugian Stage
Tgsl gray concretionary siltstone and claystone



◆ **GAVIOTA — SACATE FORMATIONS**

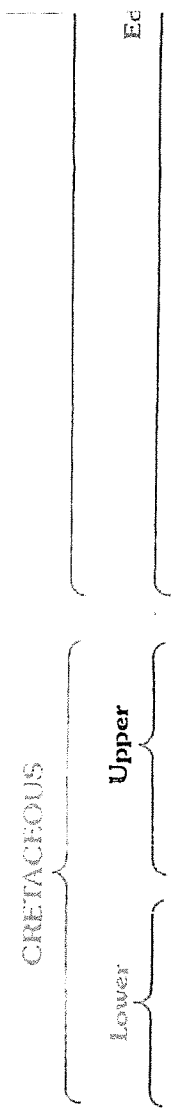
Tg-sa Gaviota or Sacate Formations, undifferentiated



◆ **SACATE FORMATION**

marine; late Eocene age

dark gray micaceous clay shale and siltstone interbedded with hard, light gray to tan arkosic sandstone; Narizian Stage
Tsass predominantly sandstone Tsash predominantly shale



MATILJA (?) SANDSTONE
marine; middle to late Eocene age
Tma *hard, thick bedded, tan arkosic sandstone with thin partings of gray micaceous shale*

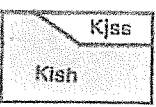


◆ **ANITA SHALE**
marine; early(?) to middle Eocene age
Tan *medium to dark gray micaceous clay shale with rare thin sandstone strata; includes a bed of red to green foraminiferal claystone ("Poppin Shale")*



★ **SIERRA BLANCA LIMESTONE**
shallow marine transgressive; early(?) Eocene age
Tsb *white algal limestone, commonly sandy; disconformity at base*

UNCONFORMITY



◆ **JALAMA (?) FORMATION**
marine; late Cretaceous age
Kjss *hard, tan arkosic sandstone with thin partings of dark gray micaceous shale* **Kjsh** *hard but fractured dark gray micaceous shale; rare thin hard strata of sandstone, and conglomerate of black chert pebbles*



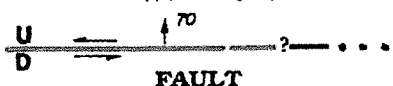
★ **ESPADA FORMATION**
marine; late Jurassic (?) to early and middle (?) Cretaceous age
Ke *dark gray, hard but fractured micaceous shale with thin interbeds of hard, olive-gray arkosic sandstone, minor pebble conglomerate, and thin, dark gray carbonate strata*

SYMBOLS

not all symbols present on each map

FORMATION CONTACT **MEMBER CONTACT**
dashed where inferred or indefinite

CONTACT BETWEEN SURFICIAL SEDIMENTS
located approximately in places



FAULT

dashed where indefinite or inferred, dotted where concealed, queried where existence doubtful. Parallel arrows indicate inferred relative lateral movement. Relative vertical movement shown by U/D (U = upthrown side D = downthrown side). Short arrow indicates dip of fault plane.

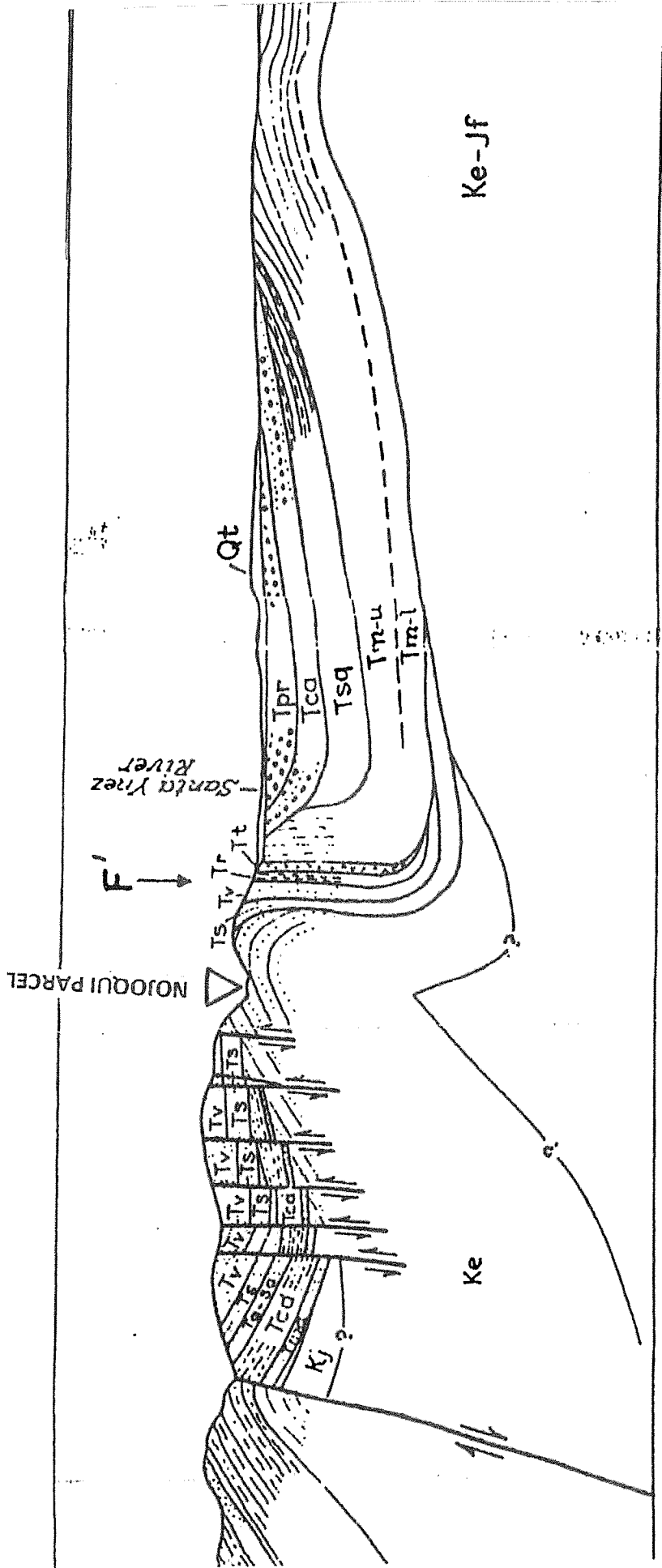


FIGURE 7
AREA CROSS SECTION

NW

SE

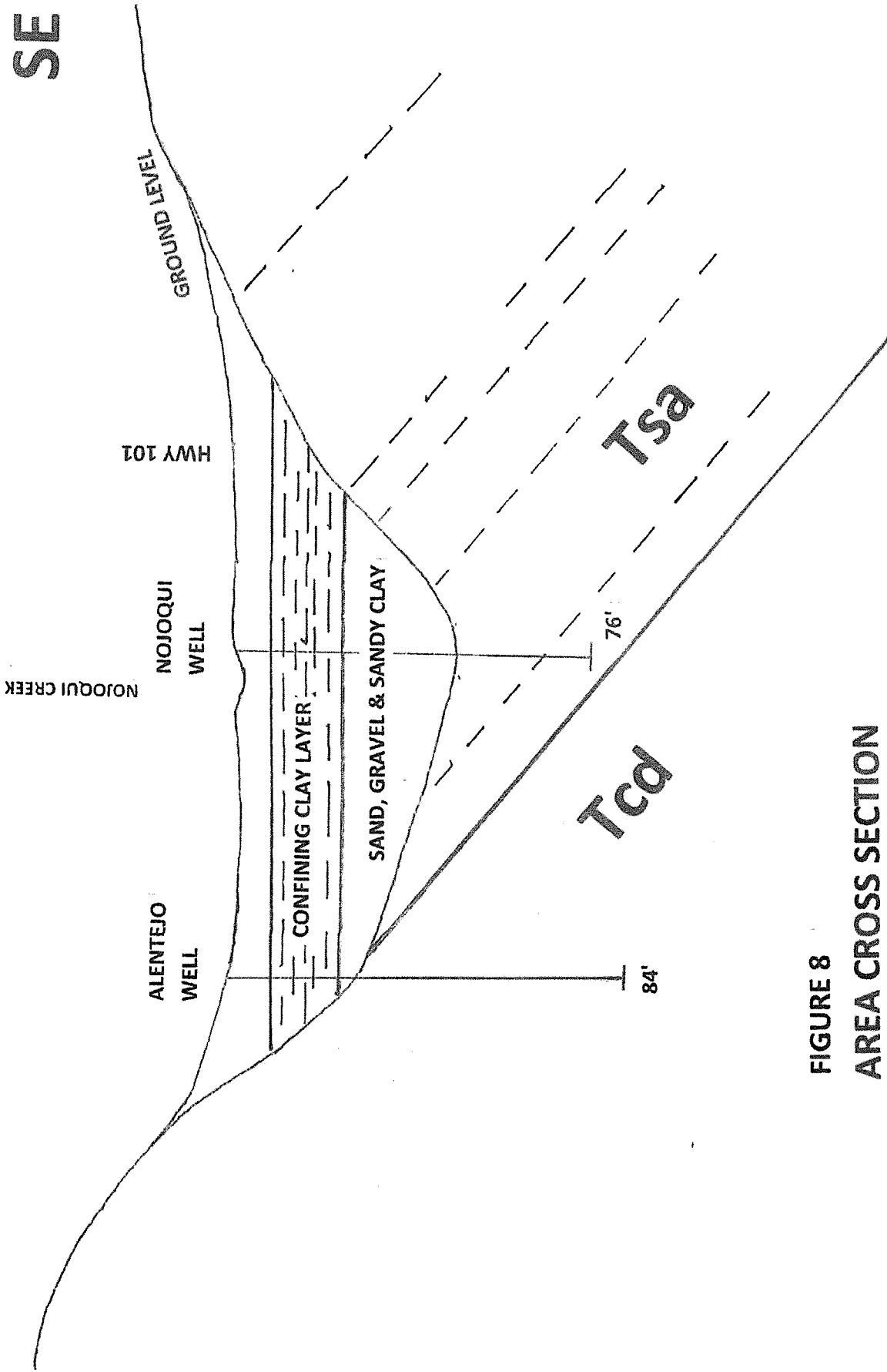
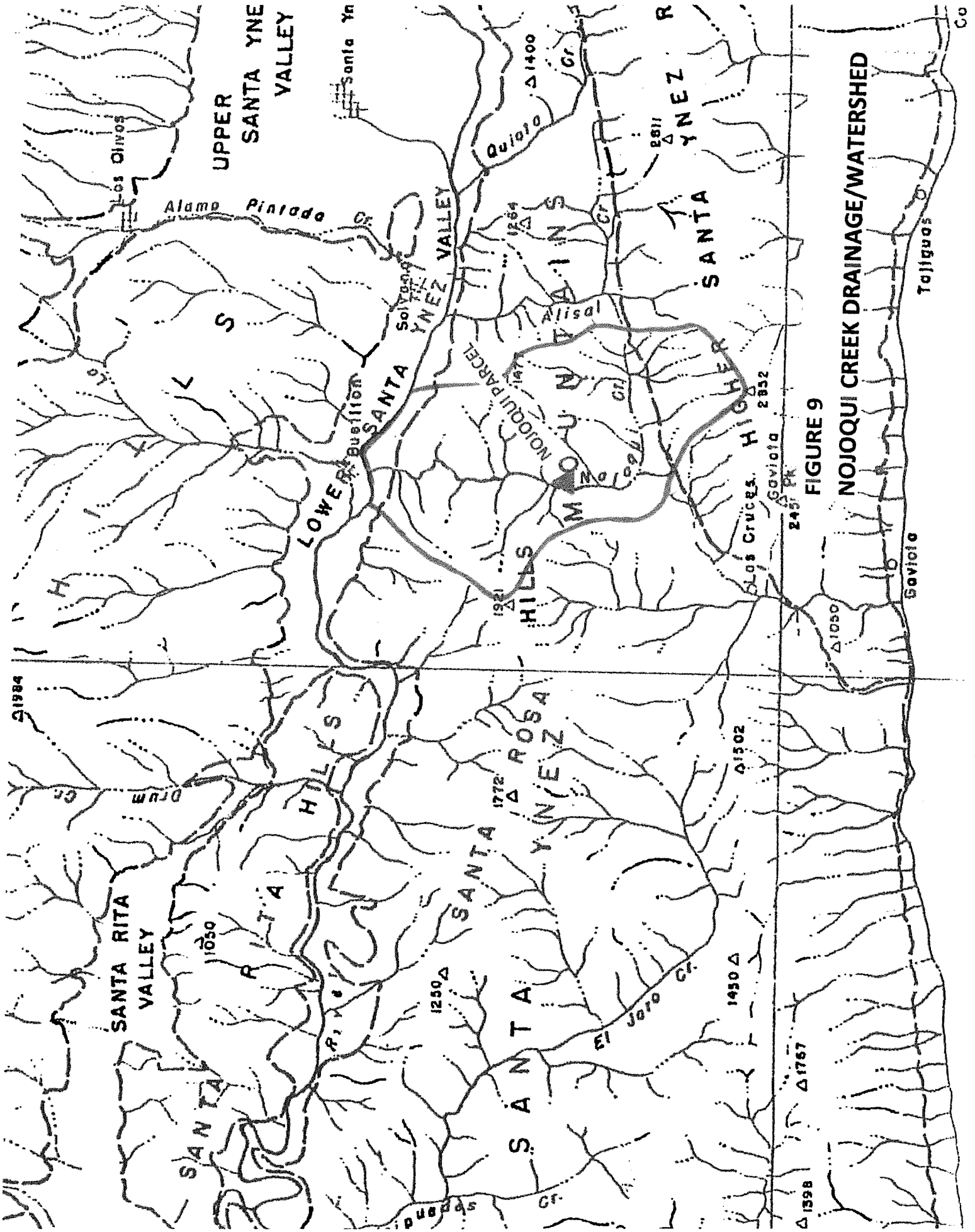


FIGURE 8
AREA CROSS SECTION
HORIZ SCALE: 1"=100'
VERT SCALE: 1"=30'



S

N

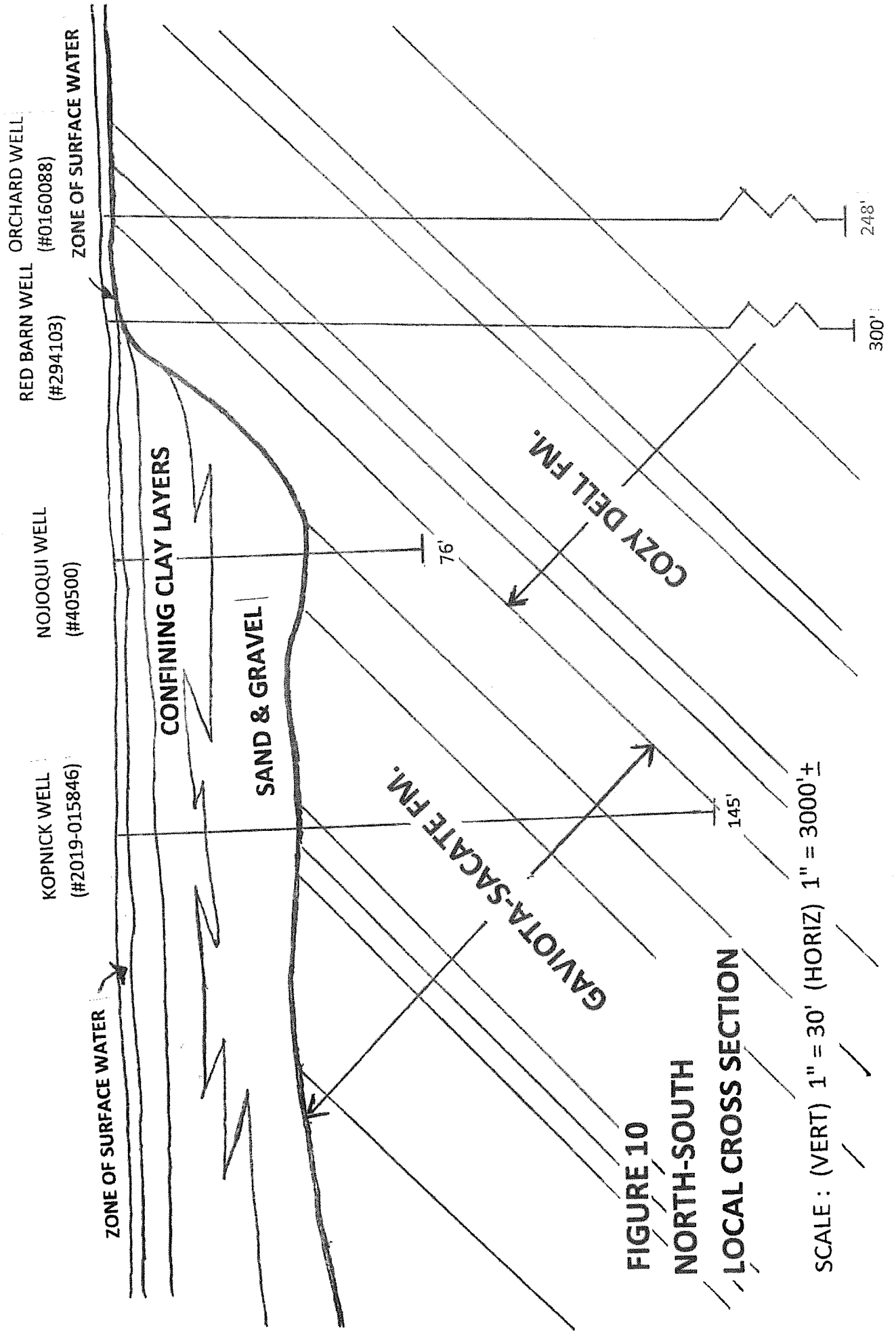


FIGURE 10

NORTH-SOUTH

LOCAL CROSS SECTION

SCALE : (VERT) 1" = 30' (HORIZ) 1" = 3000'±

NOJOQUI REPORT

APPENDIX

GRANT DEEDS

RECORDS MAINTAINED BY

RECORDED AT COUNTY CLERK'S OFFICE

BOOK 2085 PAGE 342

BOOK 2085 PAGE 342
DEC 31 6 PM '91

AND WHEN RECEIVED MAIL TO
C. O. Light
Box 98
California, Cal
This Order No. 19115, Copy No. 208

OFFICE OF THE COUNTY CLERK
SAN FRANCISCO, CALIFORNIA

INDEXED

FEES \$3.60

SPACE ABOVE THIS LINE FOR RECORDERS USE

APR 1991

Grant Deed

K7705-230 430-27

THIS PAGE FURNISHED BY SECURITY TITLE INSURANCE COMPANY

FOR A VALIDABLE CONSIDERATION, receipt of which is hereby acknowledged.

TRISTRAM W. FLANNAGAN and ALISON R. FLANNAGAN, his wife

Grantors

STANLEY HILSON GIBNEY and MARGARET GIBNEY, his wife, as joint tenants

A part of the Rancho Sycipis, in the County of Santa Barbara, State of California, as granted by the United States of America to Fernando Carrillo, by patent dated September 13, 1859, and recorded in Book 77 at Page 779, et seq., of Records, in the office of the County Recorder of said county, and particularly described as follows:

Beginning at a point on line No. 9 of the final survey of said Rancho Sycipis, at the corner corner to Section 31, Township 6 North, Range 22 West, T. 6. N. 2. W., and Section 30, Township 6 North, Range 22 West, T. 6. N. 2. W., from which point of beginning the corner corner to Section 31, Township 6 North, Range 22 West, T. 6. N. 2. W., in the Township line between Township 5 North and Township 6 North, Range South 702.38 feet distant, and from which last described point the corner corner to Sections 2 and 3, Township 5 North, Range 22 West, T. 5. N. 2. W., bears East 302.00 feet distant; thence from said point of beginning, East 75.28 feet along said line No. 9 of the final survey of said Rancho Sycipis and also the South line of said Section 31, Township 6 North, Range 22 West, T. 6. N. 2. W., to a point in the westerly line of a certain county road, thence along said road, North 1° 30' West 1112.00 feet to a point in the center line of a ditch near the West side of a certain known rd., East 11.22 feet to a point in the center line of said county road, thence South 11.22 feet to a point in the center line of said county road, thence South 29° 43' West 107.70 feet to a point at another angle to said county road, thence East, North 13° 37' West 100 feet to a point; thence leaving the center line of said County road, 7th, North 8° 15' West 106.50 feet, a point in the center line of a deep gulch at the most southerly corner of that certain parcel of land as particularly described in the Deed to Edwards et al. dated by T. N. Corbett, dated March 13, 1908 and recorded in Book 100 at Page 74, et seq., of Records, in the office of the County Recorder of said county, 102.40 feet to a point; thence along the westerly line of said parcel of land, as described in said Deed to Edwards et al. dated by T. N. Corbett, by the following courses and distances: 1st, North 37° 20' West 187.70 feet to a point; thence 5th, North 3° 23' East 72.70 feet to a point; thence 10th, North 46° 20' West 51.20 feet to a point; thence 11th, North 12° 10' West 75.20 feet to a point; thence 12th, North 5° 20' West 55 feet to a point; thence 13th, North 10° 20' West 51.60 feet to a point; thence 14th, North 15° 17' West 107 feet to a point; thence 15th, North 12° 21' East 84.60 feet to a point; thence 16th, North 13° 33' East 50.20 feet to a point; thence 17th, North 04° 47' East 69 feet to a point; thence 18th, North 8° 10' East 51.50 feet to a point; thence 19th, North 12° 50' East 73.20 feet to a point; thence 20th, North 20° 09' East 77 feet to a point; thence 21st, North 15° East 152.80 feet to a point; thence 22nd, North 18° 30' East 136.50 feet to a point; thence 23rd, North 10° 30' East 111.50 feet to the southeast corner of said deep gulch and that certain creek locally known as and called San Jose Creek, from said point of beginning the willow brush marked "P. D. E." bears North 68° 25' West 11.50 feet distant, and North 48° 30' East 14.50 feet distant, respectively; thence up the center line of said San Jose Creek, following its meanders by the following courses and distances: 24th, East 13 feet to a point; thence 25th, South 80' East 12 feet to a point; thence 26th, South 10' East 12 feet to a point; thence 27th, South 20' East 15 feet to a point; thence 28th, South 45' East 140.50 feet to a point; thence 29th, North 68° 30' West 137.20 feet to a point; thence 30th, South 8' East 130 feet to a point; thence 31st, South 6° 30' East 155 feet to a point; thence 32nd, North 15' West 204.00 feet to a point; thence 33rd, South 61' East 111.50 feet to a point; thence 34th, South 67° 30' East 135.50 feet to a point; thence 35th, South 12' East 107 feet to a point; thence 36th, South 5' West 254 feet to a point; thence 37th, South 46' East 146.50 feet to a point; thence 38th, South 14' East 190 feet to a point; thence 39th, South 25' East 99 feet to a point; thence 40th, South 71° 45' East 157.74 feet to a point; thence 41st, South 12' East 121.50 feet to a point; thence 42nd, South 65' East 50 feet to a point; thence 43rd, South 8° East 165 feet to a point; thence 44th, South

INDEXED

INDEXED

RECORDED AT COUNTY CLERK'S OFFICE
SAN FRANCISCO, CALIFORNIA

to a point; thence North, South 23° West 106.90 feet to a point, thence
47.00, South 10° East 33 feet to a point in said line No. 9 of the final
survey of said Rancho Mojocui; thence along same, North, East 968.28 feet
to the point of beginning;

EXCEPTING therefrom so much thereof as has been conveyed to the State
of California for highway purposes, including the portion conveyed by
the Deed dated April 4, 1954, and recorded May 26, 1955 as Instrument
No. 5287, in Book 1315 at Page 286 of Official Records.

ALSO EXCEPTING therefrom 1/2 of all oil, gas or other hydrocarbon sub-
stances in, under or upon said land, as reserved in the Deed from Sylvia
C. McMartin, also known as Cecelia McMartin and Sylvia McMartin, Veronica
Clinton, Josephine Haase, Cecelia Houchless and Mary Lois Houchless,
recorded May 1, 1951, as Instrument No. 7747, in Book 991 at Page 268
of Official Records.

Excepting and reserving unto the grantors herein, for the period of their
lives plus twenty-one years, an undivided one-half interest in and to all
oil, gas, petroleum and other hydrocarbon substances, minerals and water
in, under or recoverable from the portion of subsurface of the above des-
cribed land lying below a plane parallel to and 500 feet vertically below
the surface of said land, without, however, the right to enter upon the
surface of said land or any portion thereof lying above a plane parallel
to and 500 feet vertically below the surface of said land.

Also Excepting Therefrom that portion thereof described as follows:

Beginning at Southwest corner of Parcel One above described parcel, being
a point on line No. 9 of said Rancho Mojocui; thence, along the west line
of said parcel the following course and distances: South 10° West, 55
feet; thence North 23° East, 108.90 feet; thence North 10° West 72.00
feet; thence North 58°30' West, 105 feet; thence North 8°30' East 105
feet; thence leaving said westerly line South 89° 45' 31" East, 521.89
feet to a point from which said line No. 9 of Rancho Mojocui bears South
6° 18'53" West, 463.13 feet; thence South 6°18'53" West, 463.13 feet to
a point on said Line No. 9 from which the point of beginning bears West,
431.01 feet; thence along said Line No 9 West 431.01 feet to the point
of beginning.

PARCEL TWO

An easement and right of way for water well sight purposes, pumping plant
and incidentals thereto over, under, upon, and through the following
described land: Beginning at the Southwest corner of Parcel One above des-
cribed; thence along the westerly line of said Parcel One North 16° West
33 feet; thence continuing along said westerly line North 23° East, 28.53
feet; thence leaving said westerly line North 85°38'45" East, 130.40 feet;
thence South 3°01'45" West 66.50 feet to a point on said Line No. 9 from
which the point of beginning bears West 99 feet; thence along said Line No.
9 West 99 feet to the point of beginning.

EXCEPTING AND RESERVING from PARCEL ONE above an easement for road, public
utilities purposes, ingress and egress over, under, along and upon a strip
of land 10 feet in width lying adjacent to and northerly of the westerly
of said Parcel One, excepting that portion thereof lying within the lines
of PARCEL TWO herein.

PARCEL THREE

An easement for water line purposes, repairs and maintenance the same, over, under,
upon and along a 10 foot strip of land described as follows commencing at
the Southwest corner of Parcel One herein described thence North 6°14'53"
East 21.85 feet to the beginning of the center line of said 10 foot eas-
ment; thence south 89°27'56" west 55.72 feet; thence south 61°08' west
55.00 feet; thence south 35°07' west 49.50 feet; thence south 36°55' West
47.00 feet; thence North 58°47' West 83.55 feet to a point on the east
line of Parcel two here and above described said point being North 3°01'45"
West 6.00 feet from the Southwest corner of said Parcel two.

In Book 64 at Page 90 of Record of Surveys, appears a map of the herein
described land.

Date: December 29th, 1964

Alison R. Fitzgerald
Alison R. Fitzgerald

STATE OF CALIFORNIA
COUNTY OF SANTA BARBARA

on December 29th, 1964

Witness my hand and the Seal of my Office and the Seal of the County of Santa Barbara, California, this 29th day of December, 1964.

Alison R. Fitzgerald
Alison R. Fitzgerald

FOR NOTARY SEAL OR STAMP

ALISON R. FITZGERALD
Notary Public - California
My Commission Expires Feb. 1, 1968



2017-0018910

Recorded REC FEE 37.00
Official Records
County of
Santa Barbara
Joseph E. Holland
County Clerk Recorder

04:06PM 30-Apr-2017 Page 1 of 5

RECORDING REQUESTED BY AND
WHEN RECORDED MAIL TO:

Patricia Paulsen
Sunburst Church of Self Realization
PO Box 2008
Buellton CA 93427

5
19
E 7

MAIL TAX STATEMENTS TO:

Patricia Paulsen
Sunburst Church of Self Realization
PO Box 2008
Buellton CA 93427

CORPORATION GRANT DEED

A.P.N.: 083-430-014

The undersigned Grantor declares:

Document Transfer Tax \$ N/A. "This is a bonafide gift and the Grantor received nothing in return, Cal. Rev. & Tax Code § 11911."

(X) computed on full value of property conveyed, or

() computed on full value less value of liens and encumbrances remaining at time of sale.

(X) Unincorporated area: Santa Barbara County, California

Jonathan King for New Frontiers Holdings
Signature of Declarant or Agent determining tax-Firm Name

FOR NO CONSIDERATION,

NEW FRONTIERS HOLDINGS, INC., a California Corporation, of 1984 Old Mission Drive A7, Solvang, CA 93463, Grantor, a corporation organized under the laws of the state of California, hereby GRANT(s) to

SUNBURST CHURCH OF SELF REALIZATION, a California nonprofit religious corporation, of 7200 Highway 1, Lompoc, CA 93436, Grantee, certain real property located in the County of Santa Barbara, State of California, as described on Exhibit A, attached hereto and incorporated herein by this reference.

IN WITNESS WHEREOF, Grantor has caused this instrument to be executed as of the 19th day of April, 2017.

NEW FRONTIERS HOLDINGS, INC.,
a California corporation,

By: Jonathan King
Name (Print): Jonathan King
Its: President

EXHIBIT A

(Legal Description)

The land situated in the State of California, County of Santa Barbara, City of Buellton and is described as follows:

PARCEL ONE:

A part of the Rancho Nojoqui, in the County of Santa Barbara, State of California, as granted by the United States of America to Raymundo Carrillo, by patent dated September 11, 1869, and recorded in Book "A" at Page 779, et seq., of Patents, in the office of the County Recorder of said County, and particularly described as follows:

Beginning at a point in Line No. 9 of the Final Survey of said Rancho Nojoqui, at the corner common to Section 31, Township 6 North, Range 31 West, S. B. & M., and Section 36, Township 6 North, Range 32 West, S. B. & M., from which point of beginning the corner common to Section 31, Township 6 North, Range 31 West, S. B. & M., and Section 36, Township 6 North, Range 32 West, S. B. & M., in the township line between Township 6 North and Township 5 North bears South 701.58 feet distant, and from which last described point the corner common to Sections 1 and 2, Township 5 North, Range 32 West, S. B. & M., bears East 392.70 feet distant; thence from said point of beginning, 1st, East 76.58 feet along said Line No. 9 of the Final Survey of said Rancho Nojoqui and along the South line of said Section 31, Township 6 North, Range 31 West, S. B. & M., to a point in the Westerly line of a certain county road; thence along same, 2nd, North 1°30' West 1118.04 feet to a point in the center line of a gulch near the West side of a bridge; thence 3rd, East 11.22 feet to a point in the center line of said county road; thence along same, 4th, North 17° West 59 feet to a point at an angle in the center line of said county road; thence 5th, North 35°03' West 195.50 feet to a point at another angle in said county road; thence 6th, North 14°35' West 408 feet to a point; thence leaving the center line of said county road, 7th, North 67°15' West at 156.50 feet, a point in the center line of a deep gulch at the most Southerly corner of that certain parcel of land as particularly described in the deed to Eduardo De La Cuesta to E. S. Cordero, dated March 10, 1904 and recorded in Book 100 at Page 72, et seq., of Deeds, in the office of the County Recorder of said County, 169.50 feet to a point; thence along the Westerly line of said parcel of land, as described in said deed to Eduardo De La Cuesta to E. S. Cordero, by the following 16 courses and distances: 8th, North 37°20' West 147.30 feet to a point; thence 9th, North 3°15' East 78.70 feet to a point; thence 10th, North 48°30' West 51.20 feet to a point; thence 11th, North 12°10' West 76.30 feet to a point; thence 12th, North 54° West 55 feet to a point; thence 13th, North 19°30' West 51.40 feet to a point; thence 14th, North 25°17' West 109 feet to a point; thence 15th, North 13°51' East 84.80 feet to a point; thence 16th, North 33°55' East 56.60 feet to a point; thence 17th, North 61°47' East 69 feet to a point; thence 18th, North 6°10' West 91.80 feet to a point; thence 19th, North 13°45' East 73.20 feet to a point; thence 20th, North 20°25' East 77 feet to a point; thence 21st, North 15° West 153.80 feet to a point; thence 22nd, North 18°30' West 136.50 feet to a point; thence 23rd, North 42°30' East 32.50 feet to the confluence of said deep gulch and that certain creek locally known as and called Nojoqui Creek, from said point of confluence, two willow trees marked "F. B. T." bears North 62°45' West 12.50

feet distant, and North 42°30' East 32.50 feet distant, respectively; thence up the center line of said Nojoqui Creek, following its meanders by the following 23 courses and distances: 24th, West 33 feet to a point; thence 25th, South 40° West 330 feet to a point; thence 26th, South 10° West 132 feet to a point; thence 27th, South 29° West 165 feet to a point; thence 28th, South 44° West 140.58 feet to a point; thence 29th, North 68°30' West 137.28 feet to a point; thence 30th, South 8° East 132 feet to a point; thence 31st, South 8°30' West 165 feet to a point; thence 32nd, South 15° West 264.00 feet to a point; thence 33rd, South 41° West 111.54 feet to a point; thence 34th, South 67°30' West 135.96 feet to a point; thence 35th, South 12° West 264 feet to a point; thence 36th, South 5° West. 264 feet to a point; thence 37th, South 49° West 144.54 feet to a point; thence 38th, South 14° East 198 feet to a point; thence 39th, South 43° East 99 feet to a point; thence 40th, South 73°45' East 157.74 feet to a point; thence 41st, South 22° East 321.42 feet to a point; thence 42nd, South 65° East 66 feet to a point; thence 43rd, South 8°30' West 165 feet to a point; thence 44th, South 54° 30' East 165 feet to a point; thence 45th, South 10° East 72.60 feet to a point; thence 46th, South 23° West 108.90 feet to a point; thence 47th, South 15° East 33 feet to a point in said Course No. 9 of the Final Survey of said Rancho Nojoqui; thence along same, 48th, East 962.28 feet to the point of beginning.

EXCEPTING therefrom that portion thereof as has been conveyed to the State of California, for highway purposes, including the portion conveyed by the deed dated April 4, 1955 and recorded May 24, 1955, as instrument No. 9257 in Book 1316, at Page 226 of Official Records.

ALSO EXCEPTING therefrom that portion thereof described as follows:

Beginning at Southwest corner of Parcel One above described parcel, being a point on Line No. 9 of said Rancho Nojoqui; thence, along the West line of said parcel, the following courses and distances: North 16° West, 33 feet; thence North 23° East, 108.90 feet; thence North 10° West. 72.60 feet; thence North 54°30' West, 165 feet; thence North 8°30' East 165 feet; thence leaving said Westerly line South 89°45'31" East, 521.49 feet to a point from which said Line No. 9 of Rancho Nojoqui bears South 0°14'53" West, 463.13 feet; thence South 0°14'53" West, 463.13 feet to a point on said Line No. 9 from which the point of beginning bears West, 431.01 feet; thence along said Line No. 9 West 431.01 feet to the point of beginning.

ALSO EXCEPTING therefrom 1/2 of all oil, gas or other hydrocarbon substances in, under or upon said land, as reserved in the deed from Sylvia C. McMartin, also known as Cecelia McMartin and Sylvia McMartin, Veronica Clinton, Josephellen Hanse, Cecilia Rouchleau and Mary Lois Rouchleau, recorded May 18, 1951 as Instrument No. 7747 in Book 991 at Page 284 of Official Records.

ALSO EXCEPTING therefrom for the period of their lives plus twenty-one years, an undivided one-half interest in and to all oil, gas, petroleum and other hydrocarbon substances, minerals and water in, under or recoverable from the portion of subsurface of the above described land lying below a plane parallel to and 500 feet vertically below the surface of said land, without, however, the right to enter upon the surface of said land or any portion thereof, lying above a plane parallel to and 500 feet vertically below the surface of said land, as reserved by Peter M. Flanagan, et ux. ,in the deed recorded December 31, 1964 as Instrument No. 54827 in Book 2085, Page 942 of Official Records.

PARCEL TWO:

An easement and right of way for water well site purposes, pumping plant and incidentals thereto over, under, upon, and through the following described land: Beginning at the Southerly terminus of the 47th course of Parcel One hereinabove described; thence Northerly along said 47th course North 15° West 33 feet; thence continuing North 23° East 28.83 feet; thence North $85^{\circ}34'45''$ East, 100.40 feet; thence South $3^{\circ}01'45''$ West 66.50 feet to a point on said Course No. 9 from which the point of beginning bears West 99 feet; thence along said Course No. 9 West 99 feet to the point of beginning.

PARCEL THREE:

An easement for water line purposes, repairs and maintenance of the same, over, under, upon and along a 10 foot strip of land described as follows: Commencing at the Southerly terminus of the 47th course of Parcel One hereinabove described; thence North $0^{\circ}14'53''$ East 21.45 feet to the beginning of the center line of said 10 foot easement; thence South $89^{\circ}37'36''$ West 95.72 feet; thence North $61^{\circ}08'$ West 55.00 feet; thence South $35^{\circ}07'$ West 40.50 feet; thence South $86^{\circ}55'$ West 97.00 feet; thence North $50^{\circ}47'$ West 83.55 feet to a point on the East line of Parcel Two here and above described, said point being South $3^{\circ}01'45''$ West 6.00 feet from the Northeast corner of said Parcel Two.

APN: 083-430-014

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

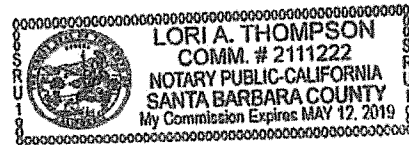
State of California
County of Santa Barbara

On April 19, 2017 before me, Lori A. Thompson, Notary Public
(insert name and title of the officer)

personally appeared Jonathan Mark King
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) (s) are subscribed to the within instrument and acknowledged to me that (he) (s) he/she/they executed the same in (his) (s) her/their authorized capacity(ies), and that by (his) (s) her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Lori A. Thompson (Seal)

**NOJOQUI FARM/SUNBURST
WELL COMPLETION REPORT**

QUADRUPPLICATE
RETAIN THIS COPY

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

Do Not Fill In

No. 40500

STATE OF CALIFORNIA

State Well No. _____

Other Well No. _____

(1) OWNER:

Name **A. D. Gohart**

Address **Box 28**

Calabasas, Calif.

(2) LOCATION OF WELL:

County **Santa Barbara** Owner's number, if any _____

R. F. D. or Street No. **Approximately 4 miles south of**
Pointon on Highway 101, 1/2 mile north and
1/2 mile west of intersection of Highway 101

(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 **85** ft. **8** Diam. **8** Gage of Wall

If gravel packed

Diameter of Bore from ft. to ft.

Type and size of thim or well ring

Describe joints **WELLS COLLAR**

Size of gravel:

(7) PERFORATIONS:

Type of perforator used **Wells knife**

Size of perforations **1 1/2** in., length, by **2** in.

From **4 1/2** ft. to **4 1/2** ft. Perf. per row **2** Rows per ft.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes No To what depth **22** 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 **30** 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 **75** ft. Depth of completed well _____

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

ft. to	ft.	Formation
0	2	Black soil
2	26	Yellow clay
26	37	Sandy blue clay
37	39	Sandy blue clay and gravel
39	45	Sandy blue clay
45	49	Gravel, some blue clay
49	75	Blue analog some gravel

Work started _____ Completed **December** 19 **64**

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 **Alexander Bros.**

(Person, firm, or corporation) (Typed or printed)

Address **415 East College Ave**

Lompoc, Calif.

[SIGNED] **Robert M. Alexander** Well Driller

License No. **206471**

Dated **12/2/64**

**NOJOQUI MAIN WELL
PUMP TEST RESULTS**

Nojoqui Farms Water Well - AG well

Pump test 4/29/2020

Pump Depth - 46' Static Level - 12.5'

Time	Pumping Level (ft)	Rate (Gpm)	Well Behind House	Wishing Well	Remarks
10:10 AM	12.5'		32.1'	10.7'	Start of Test
10:15					
10:16	46'	250			
10:17	46'				down to pump
10:18	45.9'				reduce flow
10:19					beads are stuck
10:20	41.5'	130			
10:21					
10:22	39'				
10:23					airline leaking
10:24	37'				trying to valve back VFO
10:25	30'				
10:26	28'				valved back with gate valve
10:27	26'				
10:28	24'				
10:29		100			
10:30	20.7'		32.1'	10.7'	fixed airline?
10:32		100			
10:35	17.1'	83			
10:40					
10:45	17.1'	70			
10:50		70			
10:55	17.1'	60			
11:00	22.8'	83	32.1	10.7'	
11:15	24.1'	100			
11:25	25.2'	110			
11:35	"	105	32.1'		

Time	Pumping Level (ft)	Rate (Gpm)	Well Behind House	Wishing Well	Remarks
11:55	25.2'	110			
12:02 PM	"	114	32.1'	10.7'	valving back
12:10	21.7'	87.5			
12:20	"	95			
12:30	"	95			
12:45	"	96.6			airline off by 3.7'
1:00	22.8'	100	32.1'	10.7'	sounder unstuck
1:15		106			
1:30	22.8'	110			
1:45		106			
2:15	22.8'	106			end totalizer
2:45			32.1'	10.8'	<1"
30 min. recovery					
2:16	14.3'		32.1'		Begin recovery
2:17	13.1'				
2:18	13.1'				
2:19	"				
2:20	"				
2:21	"				
2:22	"				
2:23	"				
2:24	13'				
2:25	13'				
2:30	13'				
2:35	12.8'				
2:45	12.6'				finished recovery

NOJOQUI FARM
WATER CONSUMPTION
2010-2020

Year	Start	Finish	Months With Data	Gallons Pumped	Normalized To 12 mo's (AFY)		
2010	1/6/2010	12/30/2010	12	37,431,600	114.9		
2011	12/30/2010	1/2/2012	12	48,656,600	149.3		
2012	1/2/2012	12/31/2012	12	39,429,000	121.0		
2013	12/31/2012	6/26/2013	6	14,754,800	90.6		
2015	12/31/2014	10/28/2015	10	24,774,100	91.2		
2016	1/14/2016	12/22/2016	11	20,855,800	69.8		
2010	1/6/2010	12/30/2010	12	32,404,600	99.4	ADJ. PARCELS 60- 00 ACRES 2.38 AFY	
2011	1/4/2011	1/2/2012	12	53,683,700	164.7		
2012	1/2/2012	12/31/2012	12	39,429,000	121.0		
2013	12/31/2012	6/26/2013	6	14,754,800	90.6		
2014	MISSING				?	28 AC'S 3.1 AF/AC	
2015					91.2		
2016					69.8		
					636.7 / 6	= 106 AFY	
						~ 38 ACES	
						2.8 AFY	

ACRES FARMED

2017 DAT WAY 20 ACES x 2.5 AFY = 50
 2018 DAT WAY 20 ACES x " = 50
 2019 NO CROP PLANTED 18
 2020 HEMP 5 ACRES x 2.2 AFY = 11 AFY

10 yrs 747.7 AF / 9 = 83 AFY

91.2
 69.8
 50.0
 51.0
 11
 272.0 / 5 = 54.4 AFY

Nojoqui Farms Main Well
2010

Date	Time	Running Pump On	Static Pump Off	Totalizer	PSI Head	PSI Air Line	Feet of water	Totalizer Start	Finish	Gallons	Time	GPM	Notes
1/6/2010	11:00		off			11.9	27.5						
1/6/2010	12:00	55 min		3,208,900	57	8.4	19.4	3208900	3208900	900	3.68	245	Opened head to 54 psi
1/6/2010	13:50	2:50		3,236,600	54	6.9	15.9	6600	7500	900	3.7	243	Opened head to 52 psi
1/7/2010	15:55	on 1 hour		3,533,000	52	7	16.2	3000	4100	1100	4.27	258	
1/8/2010	8:00	on 3 hour		3,692,400	52.7	9.8	22.6	2400	3500	1100	4.41	249	Opened head to 50 psi
1/8/2010	13:30	on		3,736,800	49.5	6.5	15.0	6800	7800	1000	3.65	274	
1/12/2010	15:20	on		3,847,700	49	7.2	16.6	7700	8800	1100	3.99	276	
1/28/2010	11:45	off				11.2	25.9						Static after rains
4/13/2010	13:05	off		7,050,800		11.1	25.6						Static after rain
5/6/2010	11:50	off		7,859,650		11.4	26.3						
5/14/2010	8:30	on >1 hr		8,472,600	49.5	8.7	20.1	72600	73800	1200	4.38	274	On & off all night
5/14/2010	11:35	on >1 hr		8,510,100	46	7	16.2	10100	11600	1500	4.91	305	Throttle opened
6/22/2010	10:10	on		12,689,900	46	6.85	15.8	89900	91600	1700	5.56	306	Continuous on
7/5/2010	14:48	on		14,743,100	45	5.4	12.5	43100	44700	1600	5.31	301	Continuous on
8/4/2010	9:25	on		20,730,800	44.5	3.8	8.8	13500	15100	1600	6.16	260	Intermittant over 24 hours
8/13/2010	8:10	on		22,621,200	42	3.2	7.4	21200	22300	1100	4.9	224	Sucking air
8/13/2010	8:20	on		22,623,400	54	4	9.2	23400	24100	700	3.52	199	Throttled down
8/20/2010	12:00	on		23,987,200	50	1.5	3.5	87200	87700	500	2.567	195	Throttled down, sucking air
8/20/2010	12:05	on			55	1.6	3.7			0			Sounds ok
8/20/2010	3:20	on		24,024,700	54	0	0.0	4700	5900	1200	6.622	181	0 air line, Yikes
8/25/2010	9:50	on		24,871,600	57	3.8	8.8	1600	2500	900	4.93	183	
8/25/2010	13:55	on			56	0	0.0						Hot, pump, permanent on
8/26/2010	11:30	on			57	3	6.9						3 on--1 off
8/27/2010	12:20	on		25,344,300	56	2.1	4.9						
8/28/2010	2:15	off				5	11.6						
8/28/2010	3:20	on			57	1.8	4.2						
8/30/2010	2:15	on		25,934,700	57	2.3	5.3						After 15 min rest
9/1/2010	8:15	on		26,224,900	57.5	3.3	7.6	24900	29100	4200	22.62	186	Permanent on--morning
9/2/2010	8:30	on		26,476,600	56.5	3.8	8.8	76600	77200	600	3.32	181	Running continuous all night
9/2/2010	13:50	on			55	0	0.0						
9/3/2010	10:20	on			57	3.8	8.8						Just finished 15 min break
9/3/2010	11:45	on			55	0.3	0.7						
9/6/2010	11:50	on		27,091,300	57	4.2	9.7						Cool day, continuous on
9/6/2010	13:48	on			57	2.4	5.5						Cool day
9/7/2010	8:10	on		27,265,000	57.5	5.6	12.9	65000	65700	700	3.68	190	
9/7/2010	11:30	on			56	3.2	7.4						
9/8/2010	8:05	on			57.5	4.7	10.9						Didn't use pump, may be higher
9/15/2010	8:50	on		28,697,200	58.3	6.6	15.2	7200	8500	1300	6.96	187	
9/15/2010	11:40	on			57	3.75	8.7						
9/20/2010	11:05	on		29,278,000	58	6.6	15.2	8000	8600	600	3.1	194	Opened throttle valve slightly
9/20/2010	11:15	on			58			9900	10100	200	0.94	213	
9/20/2010	12:15	on			56.5	3.95	9.1	2900	3600	700	3.23	217	
9/23/2010	11:00	on			57.5	5.7	13.2						

Nojoqui Farms Main Well
2010

Date	Time	Running		Static	PSI Head	PSI Air Line	Feet of water	Totalizer		Finish	Gallons	Time	GPM	Notes
		Pump On	Pump Off					Start	End					
9/27/2010	11:15	on			56.5	3.3	7.6			3900	700	3.42	205	Hot!
10/5/2010	11:36	on			57	5	11.6	3200		9200	500	2.246	223	
10/12/2010	11:15	on			59	7.5	17.3	8700		9800	300	1.355	221	Opened throttle valve slightly
10/12/2010	11:18	on			58			9500		1600	600	2.65	226	
10/13/2010	11:30	on			58	6.4	14.8	1000		2300	400	1.68	238	Opened throttle valve slightly
10/15/2010	11:35	on			57			1900		8000	600	3	200	Valve closed?
10/15/2010	12:05	on			57.8	8.8	20.3	7400		8800	300	1.33	226	Opened valve a bit
10/15/2010	12:10	on			57			8500						
11/15/2010	12:40	off		static	58	10.7	24.7	35,501,100						Pump came on after air line reading
11/15/2010	13:40	on			57.5	7.1	16.4	15500		16100	600	2.53	237	Opened valve a bit
11/16/2010	10:15	on			56.5	8.2	18.9	3500		4100	600	2.45	245	Opened valve a bit
11/16/2010		on			54.5	8.2	18.9	4600		4900	300	1.3	231	
12/2/2010	9:30	off						37,512,600						Opened valve one turn—no readings

2010 TOTAL

32404600

3'4303700

Nojoqui Farms Main Well
2011

Date	Time	Running		PSI Head	PSI Air Line	Feet of water	Totalizer		Finish	Gallons	Time	GPM	Notes
		Pump On	Static				Totalizer Start	Totalizer					
1/4/2011	9:30	Off	Static		14.8	34.2							
1/17/2011	13:53	Off	Static		9	20.8							Water in the creek
1/17/2011	15:53	On	Static	43.5	4	9.2	1600	2600	1000	3.027	330		Air line seems low
1/20/2011	12:35	On	Static	43.5	5.5	12.7	800	2000	1200	3.6	333		
3/16/2011	14:15	On	Static	43	3.9	9.0	69400	70600	1200	3.7	324		Running for several hours
3/16/2011	15:15	Off	Static		9.6	22.2			0				
4/1/2011	8:30	Off	Static		13.5	31.2							Creek running well
4/22/2011	10:15	Off	Static			0.0							
4/25/2011	10:30	On	Static	44	7.7	17.8	7300	8600	1300	4.002	325		Runnin 6 hours
4/27/2011	13:30	Off	Static		10.8	24.9							
5/2/2011	8:50	Off	Static			0.0			0				
6/2/2011	7:55	On	Static	44	8.6	19.9	69300	70800	1500	4.662	322		Running 2 hours
6/3/2011	12:55	On	Static	43.5	5.5	12.7	61500	64300	2800	8.704	322		Running 7 hours
6/23/2011	7:50	On	Static	44	6.8	15.7	4800	6200	1400	4.346	322		Running several hours
7/4/2011	8:45	On	Static	43	6.6	15.2	6900	8400	1500	4.621	325		
7/20/2011	13:00	On	Static	43	4.6	10.6	82000	83200	1200	3.758	319		Running since early morning
8/3/2011	14:25	On	Static	42	3.8	8.8	6200	7600	1400	4.38	320		
8/15/2011	12:00	On	Static	43	4.6	10.6	6000	7000	1000	3.116	321		
8/24/2011	10:40	On	Static	43.5	5.8	13.4	2600	3800	1200	3.76	319		
9/6/2011	10:50	On	Static	43.5	5.9	13.6	6800	8200	1400	4.4	318		
9/21/2011	11:45	On	Static	42.5	5.5	12.7	1000	2400	1400	4.35	322		
11/17/2011	10:30	Off	Static		12.4	28.6							
12/1/2011	9:45	Off	Static		13.4	31.0							
1/2/2012	10:30	Off	Static		11.2	25.9							
12/30/2010						0.0							
						0.0							

37,451,860

53683700

2011 TOTAL

Nojoqui Farms Main Well 2012

Date	Time	Running		PSI Head	PSI Air Line	Feet of water	Totalizer		Finish	Gallons	Time	GPM	Notes
		Pump On	Static Pump Off				Start	End					
8/21/2012	10:15 On			63.25	3.7	8.5	1500	1800	300	2:65	113		
8/22/2012	8:00 On			59	3.6	8.3	1900	2300	400	3:1	129	Ran all night	
8/22/2012	11:50 On			57	0	0.0						Sucking air. throttled to 62#	
8/22/2012	11:55 On												
8/23/2012	8:20 On			62	4.2	9.7	800	1100	300	2:77	108		
8/24/2012	10:25 On			63	5.6	12.9	200	700	500	4:1	122		
8/27/2012	7:15 On			65.5	9.4	21.7	2200	2600	400	3:12	128	Well one third time running	
8/28/2012	11:45 On			62	1.3	3.0			0				
8/29/2012	11:55 On				4.3	9.9	5900	6400	500	3:87	129		
8/31/2012	11:50 On			63	4.5	10.4	5200	5800	600	4:82	124		
9/1/2012	10:00 On			65	6.8	15.7	6400	6800	400	3:41	117		
9/3/2012	8:15 On			64.5	7.4	17.1	8300	8700	400	3:27	122	Opened valve a bit	
9/4/2012	8:05 On			64.5	7.6	17.6	4100	4500	400	3:2	125	Opened valve a bit more	
9/4/2012	11:05 On			63		7.4							
9/5/2012	8:30 On			64.5	6.8	15.7	4400	4700	300	2:43	123		
9/5/2012	11:40 On			63.5	3.1	7.2	8400	8800	400	3:26	123		
9/6/2012	11:50 On			64	5.1	11.8	6700	7100	400	3:18	126		
9/7/2012	11:55 On			63.5	3	6.9	2700	3000	300	2:47	121		
9/10/2012	18:45 On			65	5.8	13.4	2400	2700	300	2:49	120		
9/11/2012	11:15 On			64	3.8	8.8	900	1200	300	2:27	132		
9/12/2012	11:50 On			64	3.8	8.8	3000	3300	300	2:29	131		
9/13/2012	11:50 On			63.5	3.7	8.5	8200	8500	300	2:33	129		
9/17/2012	8:15 On			65	7.7	17.8	2500	2800	300	2:54	118		
9/17/2012	12:00 On			64	5	11.6	800	1100	300	2:29	131	Opened valve a bit more	
9/18/2012	7:50 On			62.5	7.5	17.3	100	400	300	2:13	141		
9/18/2012	12:05 On			61.5	4.7	10.9	7700	8000	300	2:24	134		
9/27/2012	11:50 On			61.5	4.8	11.1	2000	2600	600	4:41	136		
9/28/2012	11:50 On			64	4.35	10.0	600	900	300	2:29	131		
10/8/2012	11:50 On			63	5	11.6	1800	2200	400	3:00	133	Opened valve to 62 psi head	
10/12/2012	11:55 On			61.5	4.8	11.1	700	1100	400	2:55	157		
10/16/2012	11:06 On			61	4.5	10.4	500	900	400	2:57	156		
10/17/2012	11:35 On			61	3.2	7.4	700	1100	400	2:47	162		
10/19/2012	11:43 On			61.5	4.2	9.7	900	1300	400	2:46	163		
10/24/2012	11:55 On			61.5	6.2	14.3	600	1100	500	3:14	159		
10/26/2012	11:30 On			61	4.8	11.1	100	600	500	3:21	156		
11/2/2012	11:40 On			61.5	5	11.6	7800	8200	400	2:55	157		
11/8/2012	11:45 On			62	6.4	14.8	2000	2400	400	2:57	156	Drizzle & Cool	
11/15/2012	11:15 On			63	5.9	13.6	6300	7000	700	4:33	162	Overcast. opened valve a bit	
11/29/2012	13:15 Off		Static		10.4	24.0							
12/31/2012	8:10 Off		Static		15.5	35.8							
Gallons pumped from 1/2/12 to 12/31/12													
39,429,000													

2012 Total

Nojoqui Farms Main Well
2013

Date	Time	Running Pump On	Static Pump Off	Totalizer	PSI		Feet of water	Totalizer Start	Finish	Gallons	Time	GPM	Notes
					Head	Air Line							
12/31/2012	8:10	Off	Static	25,517,300	15.5	35.8							
2/1/2013	2:30	Off	Static	26,382,600	9.9	22.9	0						
3/1/2013	10:05	Off	Static	27,045,100	8.4	19.4	0						
3/20/2013	7:45	On		28,040,500	62.5	10.7	24.7	500	1300	800	4.33	185	Well had been running Adjusted head to 60 psi
3/21/2013	11:00	On		28,206,200	58	7.2	16.6	200	800	600	3.06	196	Adjusted head to 55 psi
3/21/2013	12:50	On		28,231,400	54	6.9	15.9	1400	2100	700	3.05	230	Adjusted head to 53
3/27/2013	11:50	On		28,473,600	53.5	5.7	13.2	3600	4600	1000	4.17	240	Adjusted head to 52 psi
3/28/2013	11:35	On		28,626,400	52	4.9	11.3	6400	7200	800	3.29	243	Adjusted head to 51 psi
4/10/2013	7:30	On		29,484,200	52.5	10.4	24.0	4200	5300	1100	4.39	251	
4/11/2013	14:10	On		29,708,700	5.7	13.2	8700	800	9500	800	3.17	252	
4/19/2013	12:00	On		30,502,400	50	1.7	3.9	2400	3400	1000	4.04	248	Should throttle down soon
4/23/2013	11:50	On		30,784,300	51.5	6.2	14.3	4300	5100	800	3.23	248	Cooler so ok: throttle if hot
4/25/2013	11:50	On		31,060,100	50.5	6.2	14.3	100	2400	2300	9.3	247	Warmer, but ok
5/2/2013	11:55	On		31,782,700	49.5	4	9.2	2700	3700	1000	4.05	247	
5/3/2013	11:55	On		31,893,300	49	2.4	5.5	3300	4700	1400	5.91	237	Hot
5/16/2013	10:15	On		33,675,800	51.5	7	16.2	5800	6700	900	3.84	234	
5/16/2013	16:10	On		33,730,300	51.5	6.6	15.2	300	1100	800	3.47	231	
5/24/2013	11:35	On		35,200,700	50	2.4	5.5	700	1500	800	3.68	217	
5/27/2013	11:45	On		35,763,100	49.5	1.4	3.2	100	900	800	3.92	204	
5/30/2013	11:50	On		36,092,500	48.5	1.2	2.8	2500	3300	800	3.79	211	Sucking air--throttled
6/5/2013	11:50	On		37,146,200	55	2.7	6.2	200	800	600	3.45	174	
6/13/2013	11:56	On		38,844,800	46-47	0	0.0	4800	5300	500	3	167	Sucking air--throttled
6/14/2013	6:56	On		38,960,700	58	4.1	9.5	700	1100	400	3.19	125	Opened to 57.5
6/14/2013	10:07	On		38,987,500	56	1.4	3.2	500	800	300	2	150	Little throttle back
6/14/2013	11:50	On		39,002,500	56.5	0	0.0	500	900	400	2.73	147	Little throttle back
6/14/2013	15:50	Off	Static		4.8	11.1							
6/14/2013	17:00	On			61	2.8	6.5						
6/14/2013	20:15	On			63	3.9	9.0						
6/15/2013	5:15	On			64	6.6	15.2			0			
6/15/2013	8:25	On		39,103,300	63.5	6.2	14.3	300	600	300	3.26	92	
6/15/2013	11:15	On		39,118,500	63	4	9.2	500	700	200	2.24	89	
6/15/2013	11:55	On			61.75	3.45	8.0						
6/17/2013	7:25	On		39,339,400	62	5.8	13.4	9400	9700	300	2.95	102	
6/17/2013	10:50	On			61	1.0	2.3						
6/17/2013	12:00	On		39,366,500	59.5	0	0.0	500	700	200	2.17	92	
6/17/2013	16:45	On			62.5	3.6	8.3	800	1100	300	2.7	111	
6/18/2013	7:33	On		39,470,100	60.5	3.8	8.8	100	400	300	2.73	110	
6/18/2013	9:30	On		39,482,700	60	2.7	6.2	700	900	200	1.86	108	
6/18/2013	10:30	On			59.5	2	4.6						
6/18/2013	11:30	On			59.5	1.5	3.5						
6/19/2013	8:00	On		39,601,100	61	4.2	9.7	100	300	200	1.85	108	
6/19/2013	11:50	On		39,625,100	60	0	0.0	100	300	200	2.12	94	
6/20/2013	7:40	On		39,726,000	61.25	4.25	9.8	0	300	300	2.79	108	

Nojoqui Farms Main Well 2015

Date	Time	Running		Totalizer	PSI Head	PSI Air Line of water	Feet	Freq. Hz	Totalizer		Gallons	Time	GPM	Notes
		Pump On	Static						Start	Finish				
12/31/2014	8:47	Off	Static	86,898,200		0	0.0							
1/23/2015	9:00	Off	Static	87,452,000		13.3	30.7		86,898,200	87,452,000	553,800			75 min/day
1/27/2015	9:05	Off	Static	87,549,800		12.9	29.8		87,452,000	87,549,800	97,800			
2/20/2015	7:35	Off	Static	87,808,100		13.7	31.6		87,549,800	87,808,100	258,300			
3/2/2015	8:00	On	Pumping	87,919,800	Broken	9.3	21.5		87,919,800	87,920,200	400	1:27	315	
4/8/2015	8:04	On	Pumping	88,446,100	Broken	9.7	22.4		88,446,100	88,446,200	100	0:33	303	
4/8/2015	8:12	On	Pumping			9.4	21.7				0			
4/30/2015	14:38	On	Pumping	89,616,900	39	4.7	10.9		89,617,000	89,617,100	100	0:35	286	Ran most of day
5/4/2015	8:09	Off	Static	89,697,800		13.4	31.0				0			
5/6/2015	7:40	Off	Static	89,916,900		13.3	30.7				0			
5/25/2015	10:25	Just off	Rising	90,872,000			0.0				0			
5/25/2015	14:32	On	Pumping	90,015,000	38		0.0				100	0:32	313	
6/12/2015	14:37	On	Pumping	92,434,600	40	4.6	10.6				100	0:35	286	
6/19/2015	13:38	On	Pumping	93,311,400	38	2.5	5.8				100	0:35	286	
7/23/2015	8:42	On	Pumping	97,528,300	38	2.9	6.7				100	0:42	238	
7/28/2015	11:50	On	Pumping	98,420,400	38	1.3	3.0				100	0:37	270	
7/31/2015	5:50	Off	Static	98,689,200		9.6	22.2				0			
8/5/2015	6:01	On	Pumping	99,625,700	0	2.6	6.0				100	0:34	294	6 hour run from midnight
8/28/2015	9:30	On	Pumping	102,081,000	Broken	2	4.6				100	0:4	250	
8/28/2015	11:00	On	Pumping	103,218,100			0.0				100	0:377	265	
9/1/2015	8:28	Off	Static	103,724,500		9.5	21.9				0			
9/3/2015	6:10	On	Pumping	103,919,700		3	6.9				100	0:37	270	
9/3/2015	7:57	On	Pumping	103,949,770		2.7	6.2				100	0:35	286	
9/10/2015	6:57	On	Pumping	104,661,400		2.9	6.7	60.0			100	0:35	286	
9/19/2015	8:15	On	Pumping	105,649,700		3.2	7.4	5.9			100	0:38	263	
9/11/2015	10:35	On	Pumping	105,686,000		1	2.3	58.5						
9/11/2015	16:36	Off	Static	105,978,900		5	11.6							Set 10 hours at night
9/24/2015	7:20	On	Pumping	106,367,600	40	3.3	7.6				100	0:37	270	
10/9/2015	7:55	On	Pumping	108,960,800			0.0	54.5			100	0:37	270	
10/15/2015	7:43	On	Pumping	110,333,300		2.6	6.0	52.1			100	0:68	147	
10/28/2015	7:15	On	Pumping	111,672,300		3.2	7.4	50.5						
11/18/2015	7:40	On	Pumping	Broken		3.6	8.3	51.2						
Gallons pumped from 12/31/14 to 10/28/15:													24,774,100	

Nojoqui Farms Main Well 2016

Date	Time	Running		PSI Head	PSI Air Line of water	Feet	Freq. Hz	Gallons Pumped	Days	Average Gal/Day	Timing Gallons	Timer Time	GPM	Notes
		Pump On	Static Pump Off											
1/14/2016	8:00 On					0.0								
2/21/2016	13:25 On		Pumping		3	6.9	57.4				100	0.35	286	Had run all night-cavitation
3/1/2016	8:30 On		Pumping		2.4	5.5	60.0	593,800	19	31,253	100	0.39	256	
6/16/2016	7:26 Perm On		Pumping	=/-40	2	4.6	55.0	3,213,600	28	114,771	100	0.37	270	Cavitation
7/6/2016	16:40 Perm On		Pumping		3.1	7.2	49.8				100	1.62	62	
7/28/2016	8:05 Perm On		Pumping			0.0	49.8	3,035,900	42	72,283	100	2.23	45	
7/29/2016	6:30 Perm On		Pumping	38 to 40	4	9.2	49.9	76,700	1	76,700	100	1.65	61	
8/4/2016	7:20 Perm On		Pumping	38	2.75	6.4	50.0	308,250	6	51,375	100	1.6	63	
8/24/2016	11:25 Off					0.0		887,750	20	44,388				VFD Broken
8/25/2016	7:50 Off		Static		6.8	15.7								VFD Broken
8/26/2016	9:30 Off		Static		7.2	16.6								
9/13/2016	15:45 Off					0.0								
9/16/2016	7:30 On			38	2.1	4.9	50.6	32,600	3	10,867	100	1	100	
9/21/2016	7:44 On			38.5	2.2	5.1	51.1	70,100	5	14,020	100	1	100	
9/29/2016	7:24 Came on					0.0								
9/29/2016	8:08 On			38	2.1	4.9	51.1	91,550	8	11,444				Pump turned off
10/6/2016	7:55 On			38	2.8	6.5	51.2	47,850	7	6,836	100	0.838	119	
10/19/2016	7:40 On			38	2.7	6.2	51.6	93,100	13	7,162	100	0.88	114	
11/11/2016	10:45 Off		Static		8.4	19.4		177,500	23	7,717			0	
11/17/2016	7:17 Off		Static		10.8	24.9		49,800	6	8,300				4 timer pegs, now 3
11/18/2016	14:30 On/Off					0.0	51.2							Left on 31 hours
12/13/2016	14:40 Off		Static		10.2	23.6		384,850	26	14,802				
12/22/2016	7:30 Off		Static		12	27.7		61,450	9	6,828				
12/22/2016	7:37 On				2.5	5.8	53.8							Dropped quickly
Gallons pumped from 1/14/16 to 12/22/16:													20,855,800	

MOONSHINE WELLS 1 & 2
WELL COMPLETION REPORTS

MOONSHINE 1

QUADRUPPLICATE
Use to comply with
local requirements

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

No. 354299

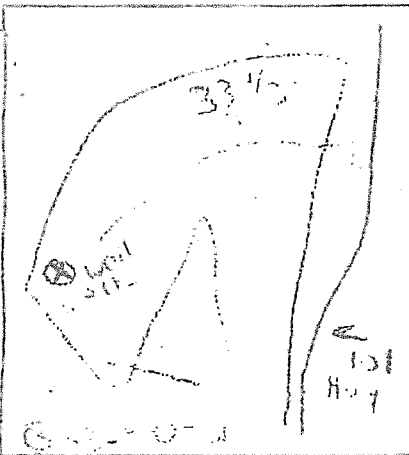
Notice of Intent No. _____
Local Permit No. or Date _____

State Well No. _____
Other Well No. _____

(1) OWNER: Name MOONSHINE VALLEY RANCH
Address Box 1370
City CASTROVILLE, CA ZIP 95017

(12) WELL LOG: Total depth 180 ft. Completed depth 180 ft.
from ft. to ft. Formation (Describe by color, character, size or material)
0 - 45 Formation: Clay
45 - 80 Formation: Clay with gravel
80 - 180 Formation: Shale

(2) LOCATION OF WELL (See instructions):
County San Benito Owner's Well Number _____
Well address if different from above Highway 101
Township 5N Range 32E Section 14
Distance from cities, roads, railroads, fences, etc. _____



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 Reverser
Cable Air
Other Bucket

(6) GRAVEL PACK:
Yes No Shot size _____
Diameter of bore _____
Packed from _____ to _____

(7) CASING INSTALLED:
Steel Plastic Concrete

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

From ft.	To ft.	Dia. in.	Cage or Wall	Screen	To ft.	Shot size
0	60	2 1/2	3 1/2	60-180	180	.040

(9) WELL SEAL:
Was surface sanitary seal provided? Yes No If yes, to depth 60 ft.
Were strata sealed against pollution? Yes No Interval _____ ft.
Method of sealing _____

Work started 11-1-1995 Completed 11-15-1995

(10) WATER LEVELS:
Depth of first water, if known _____ ft.
Standing level after well completion 25 ft.

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

(11) WELL TESTS:
Was well test made? Yes No If yes, by whom? Cascade
Type of test Pump Bailor Air lift
Depth to water at start of test 25 ft. At end of test 180 ft.
Discharge 55 gal/min after 12 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

Signed [Signature] (Well Driller)
NAME Cascade Well & Pump Co
Address 267 E. Main St
City San Benito ZIP 95111
License No. 4116704 Date of this report 11-21-95

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

WELL & PUMP COMPANY

267 EL SUEÑO ROAD
SANTA BARBARA, CA 93110

Telephone (805) 935-7248
Fax (805) 631-4558

3/21/96

NOJOQUI VALLEY RANCH
P.O. BOX 130
BUELLTON, CA 93427

RE: HWY 101-33 ACRE PARCEL

WELL TEST

3/21/96

<u>TIME</u>	<u>GUAGE</u>	<u>WATER LEVEL</u>	<u>DRAWDOWN</u>	<u>GPM</u>
9:30 a.m.	61	29	0	50
9:45	61	29	0	50
10:00	61	29	0	50
10:30	60	31	2	50
11:30	59	33	4	50
12:30 p.m.	59	33	4	50
1:30	58	36	7	50
2:30	58	36	7	50
3:30	58	36	7	50
4:30	58	36	7	50
5:30	58	36	7	50
6:30	58	36	7	50
7:30	58	36	7	50
8:30	58	36	7	50
9:30	58	36	7	50

Recovery

9:45	59
10:00	61

AFTER PUMPING FOR A PERIOD OF 12 HOURS, I CERTIFY THAT THIS WELL WILL DELIVER A MINIMUM OF 50 GALLONS PER MINUTE.



BEN GIORDANO
LICENSE #496704

MODSHINE 2

State of California
Well Completion Report
 Form DWR 188 Complete 11/28/2017
 WCR2017-005533

Owner's Well Number _____ Date Work Began 09/13/2016 Date Work Ended 10/08/2016
 Local Permit Agency Santa Barbara County Environmental Health Services
 Secondary Permit Agency _____ Permit Number 0000438 Permit Date 03/30/2015

Well Owner (must remain confidential pursuant to Water Code 13752)		Planned Use and Activity	
Name	XXXXXXXXXXXXXXXXXXXX	Activity	<u>New Well</u>
Mailing Address	XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	Planned Use	<u>Other</u>
City	XXXXXXXXXXXXXXXXXXXX	Specify	<u>Agriculture & Domestic</u>
State	<u>XX</u>	Zip	<u>XXXXX</u>

Well Location					
Address	<u>1889 Highway 101</u>		APN	<u>083430014</u>	
City	<u>Gaviota</u>	Zip	<u>93117</u>	County	<u>Santa Barbara</u>
Latitude	<u>34</u> <u>33</u> <u>10 4</u> <u>N</u>	Longitude	<u>-120</u> <u>11</u> <u>30.5</u> <u>W</u>	Township	<u>06 N</u>
Dec. Lat.	<u>34.5528889</u>	Dec. Long.	<u>-120.1918056</u>	Range	<u>31 W</u>
Vertical Datum	Horizontal Datum		<u>WGS84</u>	Section	<u>31</u>
Location Accuracy	<u>>50 Ft</u>	Location Determination Method	<u>Other</u>	Baseline Meridian	<u>San Bernardino</u>
				Ground Surface Elevation	_____
				Elevation Accuracy	_____
				Elevation Determination Method	_____

Borehole Information	
Orientation	<u>Vertical</u> Specify _____
Drilling Method	<u>Direct Rotary</u> Drilling Fluid <u>Bentonite</u>
Total Depth of Boring	<u>800</u> Feet
Total Depth of Completed Well	<u>800</u> Feet

Water Level and Yield of Completed Well	
Depth to first water	_____ (Feet below surface)
Depth to Static	_____
Water Level	_____ (Feet) Date Measured <u>10/08/2016</u>
Estimated Yield*	<u>25</u> (GPM) Test Type <u>Pump</u>
Test Length	_____ (Hours) Total Drawdown _____ (feet)
*May not be representative of a well's long term yield.	

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	10	Light brown clayey silt
10	20	Dark grey silt and clay
20	30	Orange brown gravelly silt
30	150	Dark grey siltstone and shale, hard
150	160	Blue grey siltstone, hard
160	260	Grey brown shale
260	300	Blue grey siltstone, hard
300	310	Dark grey brown shale and clay
310	365	Blue grey siltstone
365	390	Blue grey sandstone, fine grained

390	400	Dark grey shale and sandstone, very fine grained
400	430	Blue grey siltstone and sandstone, very fine grained
430	440	Blue grey sandstone, very fine grained
440	450	Dark grey siltstone, hard
450	530	Blue grey very fine grained sandstone
530	540	Dark grey siltstone very fine grained
540	550	Blue grey sandstone very fine grained
550	600	Dark grey siltstone and blue grey sandstone, very fine grained
600	670	Blue grey sandstone, very fine to fine grained
670	690	Blue grey sandstone and siltstone
690	800	Blue grey shale and sandstone

Casings

Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size If any (inches)	Description
1	0	260	Blank	PVC	OD: 6.625 in. SDR: 21 Thickness: 0.316 in.	0.316	6.625			
1	260	800	Screen	PVC	OD: 6.625 in. SDR: 21 Thickness: 0.316 in.	0.316	6.625	Milled Slots	0.032	

Annular Material

Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
51	800	Filter Pack	Other Gravel Pack		Gravel Pack
0	51	Cement	Other Cement		Sanitary Seal

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet	Borehole Diameter (inches)	
0	800	12.25

Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief			
Name	CASCADE WELL CO		
	Person, Firm or Corporation		
1200 VIA REGINA	SANTA	CA	93111
Address	City	State	Zip
Signed	<i>electronic signature received</i>	11/22/2017	496704
	C-57 Licensed Water Well Contractor	Date Signed	C-57 License Number

Attachments
1889 Hwy 101 Map.pdf - Location Map

DWR Use Only			
CSG #	State Well Number	Site Code	Local Well Number
			N
Latitude Deg/Min/Sec		Longitude Deg/Min/Sec	
TRS:			
APN:			

APPROVED SINGLE PARCEL WATER SYSTEM

Single Parcel Water System Permit Application

Single Parcel Water System (1 – 4 connections) Plan Review - \$1,604 [4617]

Required Attachments:

1. Water System Exclusive Ownership Declaration – Complete Attachment 1 (see Application Instructions – item D.)
2. Copy of Grant Deed (see Application Instructions – item D.)
3. Copy of easement if using offsite source. (see Application Instructions – item D.)
4. Plot Plan – Complete Attachment 2 (see Application Instructions – item K.)
5. Schematic Drawing – Complete Attachment 3 (see Application Instructions – item L.)
6. Pump specifications (see Application Instructions – item L.)
7. Pump Test Report (see Application Instructions – item I.)
8. Water Quality Chemical Analysis results (see Application Instructions – item J.)
9. Water Treatment Letter – included as Attachment 4 (see Application Instructions – item J.)

FOR OFFICE USE ONLY

Rec'd Date: _____

Rec'd By: _____

SR # _____

District # _____

APPLICANT: Property Owner Licensed Well Drilling Contractor Owner's Agent (Authorized in writing)

Property Owner SUNBURST CHURCH/PATRY PAULSEN Telephone No. (805) 291-2466

Mailing Address: P.O. Box 200B BUELLTON CA 93427

Street Number and Name

City

State/ Zip Code

(If applicant is other than Property Owner):

Applicant's Name CHARLES KATHREIN Phone: 805-5985661 Cell: SAME E-mail: L.kathrein@1st.com Fax: _____

Applicant's Address: P.O. Box 1812 SANTA MARIA CA 93456

Street Number and Name

City

State/ Zip Code

Site Location: 1889 U.S. Highway 101 BUELLTON CA 93427

Street Number and Name

City

State/ Zip Code

Assessor's Parcel Number 083-430-014

<p>1. Number of Existing Water Connections: <u>2</u></p> <p>Number of New Water Connections: <u>0</u></p> <p>Type of New Water Connection(s):</p> <p><input type="checkbox"/> Commercial Building <input type="checkbox"/> Single Family Residence</p> <p><input type="checkbox"/> Mobile Home <input type="checkbox"/> Additional Dwelling Unit</p>	<p>2. Water System Location:</p> <p><input checked="" type="checkbox"/> On Project Property <u>WATER SYSTEM</u></p> <p><input checked="" type="checkbox"/> Off-Site (see Application Instructions – item D) <u>WELL</u></p> <p>(Assessor's Parcel # <u>083-430-015</u>)</p>
<p>3. Water System Source:</p> <p><input checked="" type="checkbox"/> Well <input type="checkbox"/> Horizontal Well</p> <p><input type="checkbox"/> Spring <input type="checkbox"/> Creek / Stream</p> <p>If the source is a well, please complete the attached schematic diagram. If the source is a spring, horizontal well or creek/stream, attach appropriate schematic.</p>	<p>4. Well Data:</p> <p>Date Drilled: <u>12/1964</u></p> <p>Well Permit # <u>WCR 101177</u></p>
<p>5. Other Water Source</p> <p><input type="checkbox"/> Public <input type="checkbox"/> Private <input checked="" type="checkbox"/> None</p>	<p>6. Type of Permit:</p> <p><input type="checkbox"/> Construction <input checked="" type="checkbox"/> Modification of <u>EXISTING SYS.</u></p>
<p>7. Source Yield / Pump Test Report: (From test completed in last 5 years)</p> <p>Gallons Per Minute: <u>100+ gpm</u> (Attach Pump Test Report)</p>	<p>8. Water Quality Chemical Analysis: (From test completed in last 3 years)</p> <p><input checked="" type="checkbox"/> No Treatment required <input type="checkbox"/> Treatment required</p> <p>(Attach analysis and indicate treatment equipment on schematic. Treatment form and equipment specifications are required.)</p>

9.

LEGAL DECLARATION

LICENSED CONTRACTOR DECLARATION

I hereby affirm that I am a licensed under the provisions of Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code and such license (C-57 or C-61) is in full force and effect.

NOT APPLICABLE (AS BUILT)

Print Name of Contractor

Signature of Contractor

Date

Lic. No.:

Office Telephone

Cell Phone:

Business Name:

Address

10. (Complete 'A' or 'B')

A. WORKERS' COMPENSATION DECLARATION

I hereby affirm one of the following:

- I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
I have and will maintain workers' compensation insurance, as provided for by Section 3700 of the Labor Code, for the performance of work for which this permit is issued. My insurance carrier and policy number are:

Carrier

Policy No.

Applicant Signature

Date

B. CERTIFICATION OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

I certify that in the performance of work for which this permit is issued, I shall not employ any person in a manner so as to become subject to the Worker's Compensation Laws of California.

Applicant Signature

Date

Notice to Applicant: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

11. When signed by the Environmental Health Specialist, this application shall become a Permit to Construct a Single Parcel Water System and is not a "permit for development" as that term is used in the California Subdivision Map Act. Approval is based entirely on the review of information submitted by the applicant and is not a guarantee as to the future quality or quantity of water which will be provided by the water system. Permits are valid for three years from the date of issuance. Permits are not transferable. Please note additional permits (e.g., electrical installation, land use clearance, grading) may also be required from other agencies prior to the installation of the water system.

In accordance with the requirements of Santa Barbara County Code, I do hereby make application for a permit to construct a Single Parcel Water System and certify that the above information is true and correct. The permit application must be signed by the parcel owner, his/her agent (with written authorization) or a licensed contractor. A manually signed copy of this application delivered by facsimile, email, or other electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this application.

REQUIRED INSPECTIONS / FINAL CLEARANCE: Prior to final clearance/occupancy:

- 1. Disinfect and flush the completed water system per EHS instructions.
2. After flushing, a final inspection and bacteriological sampling must be scheduled directly with the approving Environmental Health Specialist at least two (2) business days in advance.
3. Submit a chemical analysis of treated water (if treatment is required).
4. Obtain written occupancy from Environmental Health.

Signed

CHARLES E. KATHERMAN
Applicant Owner/Agent/Licensed Contractor (Print Name)

Charles E. Katherman
Applicant's Signature

4/26/2021
Date

FOR DEPARTMENT USE ONLY

APPLICATION DISPOSITION: [X] Approved [] Denied

Signed

Belinda Huy
ENVIRONMENTAL HEALTH SPECIALIST

07/26/21
DATE

Fixed Fee Rec'd: by: Date/Amt. \$ Credit Card: [] Check/Receipt/Trans. No.:

Hourly Billing: Applicant notified of amount due by Plan Checker (Initials): Date:

Rec'd by: Date/Amt. \$ Credit Card: [] Check/Receipt/Trans. No. #

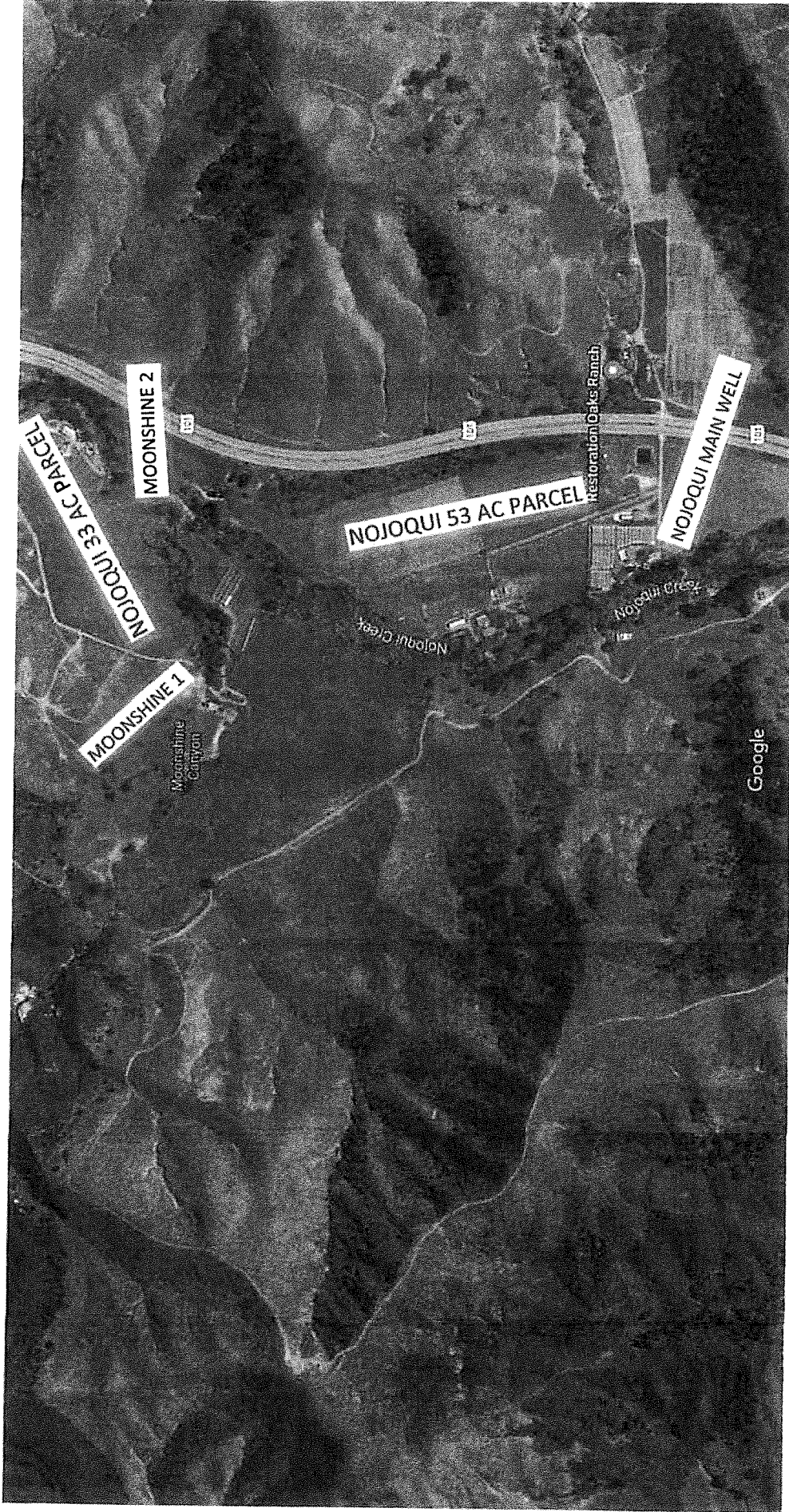
Date plans resubmitted (1) (2) (2)

Permit Conditions:

Final Construction Approved by: Date:

Final Clearance by: Date:

DOMESTIC WATER SYSTEM PLOT PLAN



Imagery ©2022 Maxar Technologies, USDA Farm Service Agency, Map data ©2022 500 ft

AERIAL PHOTO/LOCATION MAP

NOJOQUI FARM CANNABIS PROJECT WATER QUALITY MEMO MAY 2022

ADDENDUM TO NOJOQUI WATER SOURCE & WATER DEMAND REPORT
(DATED MARCH 2022)

Purpose

At the time the Water Source & Water Demand Report for the Nojoqui Farm cannabis project was submitted to Santa Barbara County Planning & Development a key water quality analysis was still pending. Katherman Exploration Co. retrieved a surface water sample from Nojoqui Creek for the purpose of comparing the water chemistry of the creek water to the groundwater chemistry of the water extracted from the Nojoqui Main Well.

When the surface water sample was taken, it was determined through use of a hand-held TDS (total dissolved solids) meter that the surface water was a less saline or fresher water than that of the produced water from the Main Well. Consequently, more detailed laboratory analysis of the surface water was warranted. The subject creek water sample was taken and delivered to FGL (Fruit Growers Lab) on February 4, 2022.

Water Quality Results

A complete water analysis (drinking water standards) was originally obtained on the Nojoqui Main Well in April of 2020, when this well was pump tested (results in Water Source & Water Demand Report). These analyses were compared to the recent analyses of the surface water. The following is a chart of the differing levels of constituents in the two water samples:

<u>Constituent</u>	<u>Main Well</u>	<u>Nojoqui Creek</u>
Spec. Cond	1300 umhos/cm	927 umhos/cm
TDS	840 mg/l	590 mg/l
PH	7.0	8.3

<u>Constituent</u>	<u>Main Well</u>	<u>Nojoqui Creek</u>
Iron	ND	410 *
Manganese	ND	10
Zinc	70 ug/l	30 ug/l
Nitrate	35.5 mg/l	14.3 mg/l
Arsenic	ND	3 ug/l
Chromium	ND	19 ug/l
Lead	1.5 ug/l	ND
Color	ND	10
Odor	ND	4

The most significant deviations between the two subject water samples are centered around the Specific Conductivity (SP), the Total Dissolved Solids (TDS) and the PH. The SP and TDS levels are indicative of the water's overall salinity. Therefore, the salinity of the Main Well water is 42% more saline than the surface water from Nojoqui Creek. In addition, the PH of the waters are also different with the water from the Main Well being neutral at 7.2, while the creek water is significantly more alkaline at 8.3.

The other differing key components in the two water samples included iron, which in the creek water exceeds the allowable level for drinking water or potable water. In the Main Well water the iron levels is non-detect or ND. The Nojoqui Creek water is higher in manganese, arsenic, chromium, color and odor. Color and odor may be higher just due to the creek water interacting with the creek sediments and and decaying plant material. The Main Well water is higher in zinc and nitrates, but neither is above the allowable levels (MCL's) for drinking water. The complete chemical analyses are included in the Appendix.

This measured difference in the water chemistry between the Main Well water and Nojoqui Creek water further confirms and provides evidence in support of statements 4 and 5 in section of the Nojoqui Water Source and Water Demand Report dealing with the origin of the area groundwater extracted from the Main well. These statements are listed below:

4. The subject Nojoqui Main Well contains a confining clay layer from near surface to 37 feet. This clay layer is mostly impermeable and will not readily transmit water downward into the water-bearing sediments below it. This clay zone likely also confines the subsurface flow from communicating directly with the surface flow.

5. In support of Statement #4 above, there are different water chemistries between the surface water of the creek and the water-bearing sediments below the confining clay layer. The chemical analysis on the creek surface water is pending, but a hand-held Total Dissolved Solids (TDS) meter indicated a TDS or salinity level of 300+ parts per million (ppm) versus 860 ppm for the recently tested groundwater being produced from the Main Well. A significantly different value for salinity further indicates that the subsurface water produced by the Main Well is in minimal communication at this location with the surface waters from the Nojoqui Creek.

This memo/addendum to the Nojoqui Water Source and Water Demand Report has been prepared by Katherman Exploration Co.



Date: 5/5/2022

Charles E. Katherman, CA P.G. #4069

May 19, 2020

A & A Pump & Well Service
 123 Industrial Way
 Buellton, CA 93427

Lab ID : SP 2005622-002
 Customer ID : 2-17951

Sampled On : April 29, 2020-10:30
 Sampled By : Richard Alexander
 Received On : April 29, 2020-14:00
 Matrix : Ground Water

Description : Ag Well 1
 Project : Nojoqui Farms

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral								
Total Hardness as CaCO3	454	--	mg/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Calcium	116	1	mg/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Magnesium	40	1	mg/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Potassium	ND	1	mg/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Sodium	68	1	mg/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Total Cations	12.0	--	meq/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Boron	0.2	0.1	mg/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Copper	20	10	ug/L		200.7	05/01/20:204876	200.7	05/04/20:206910
Iron	ND	30	ug/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Manganese	ND	10	ug/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Zinc	70	20	ug/L		200.7	05/01/20:204876	200.7	05/01/20:206810
Gypsum Requirement	0.03	--	Tons/AF		200.7	05/01/20:204876	200.7	05/05/20:206919
SAR	1.4	--	--		200.7	05/01/20:204876	200.7	05/01/20:206810
Total Alkalinity (as CaCO3)	320	10	mg/L		2320B	05/07/20:205109	2320B	05/07/20:207214
Hydroxide as OH	ND	10	mg/L		2320B	05/07/20:205109	2320B	05/07/20:207214
Carbonate as CO3	ND	10	mg/L		2320B	05/07/20:205109	2320B	05/07/20:207214
Bicarbonate as HCO3	390	10	mg/L		2320B	05/07/20:205109	2320B	05/07/20:207214
Sulfate	229	1*	mg/L		300.0	04/29/20:204797	300.0	04/30/20:206535
Chloride	72	1	mg/L		300.0	04/29/20:204797	300.0	04/30/20:206535
Nitrate as NO3	35.5	0.4	mg/L		300.0	04/29/20:204797	300.0	04/30/20:206535
Nitrite as N	ND	0.2	mg/L		300.0	04/29/20:204797	300.0	04/30/20:206535
Nitrate + Nitrite as N	8.0	0.1	mg/L		300.0	04/29/20:204797	300.0	04/30/20:206535
Fluoride	0.5	0.1	mg/L		300.0	04/29/20:204797	300.0	04/30/20:206535
Total Anions	13.8	--	meq/L		2320B	05/07/20:205109	2320B	05/07/20:207214
pH (Field)	7.0	--	units		4500-H B	04/29/20:204889	4500HB	04/29/20:206794
Specific Conductance	1300	1	umhos/cm		2510B	05/08/20:205139	2510B	05/08/20:207122
Total Dissolved Solids	840	20	mg/L		2540CE	05/01/20:204851	2540C	05/04/20:206839
Total Dissolved Solids (sum)	951	--	mg/L		200.7	05/01/20:204876	200.7	05/01/20:206810
MBAS Extraction	ND	0.1	mg/L		5540C	04/29/20:204933	5540C	04/29/20:206806
Aggressiveness Index	12.0	--	--		4500-H B	04/29/20:204889	4500HB	04/29/20:206794
Langelier Index (20°C)	0.07	--	--		4500-H B	04/29/20:204889	4500HB	04/29/20:206794
Nitrate Nitrogen	8.0	0.1	mg/L		300.0	04/29/20:204797	300.0	04/30/20:206535
Metals, Total								
Aluminum	ND	10	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Antimony	ND	1	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718

May 19, 2020
 Description : Ag Well 1

Lab ID : SP 2005622-002
 Customer ID : 2-17951

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total								
Arsenic	ND	1	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Barium	47.8	0.2	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Beryllium	ND	1	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Cadmium	ND	0.2	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Chromium	ND	1	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Lead	1.5	0.5	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Mercury	ND	0.02	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Nickel	3	1	ug/L		245.1	05/11/20:205148	245.1	05/12/20:207318
Selenium	16	1	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Silver	ND	1	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Thallium	ND	0.2	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Vanadium	ND	2	ug/L		200.S	04/30/20:204828	200.S	04/30/20:206718
Wet Chemistry								
Chromium VI	0.1	0.1	ug/L		218.S	05/04/20:204980	218.S	05/04/20:207251
Color, Apparent	ND	5	units		2130B	04/29/20:205002	2130B	04/29/20:206023
Odor	ND	1	TON		2150B	04/29/20:204915	2150B	04/29/20:206875
Turbidity	0.6	0.1	NTU		2130B	04/29/20:204898	2130B	04/29/20:206798
Perchlorate	ND	4	ug/L		314.0	05/12/20:205450	314.0	05/12/20:207579

ND=Non-Detected, PQL=Practical Quantitation Limit, * PQL adjusted for dilution.

March 16, 2022

Lab ID : CC 2280404-001

Customer ID : 8-644

Katherman Exploration

PO Box 1812

Santa Maria, CA 93456

Sampled On : February 4, 2022-08:15

Sampled By : Charles Katherman

Received On : February 4, 2022-10:54

Matrix : Ground Water

Description : NOJOQUI Creek

Project : Ground Water Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral								
Total Hardness as CaCO3	384	2.5	mg/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Calcium	96	1	mg/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Magnesium	35	1	mg/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Potassium	2	1	mg/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Sodium	55	1	mg/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Total Cations	10.1	---	meq/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Boron	0.2	0.1	mg/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Copper	10	10	ug/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Iron	410	30	ug/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Manganese	10	10	ug/L		200.7	02/08/22:201472	200.7	02/08/22:201996
Zinc	30	20	ug/L		200.7	02/08/22:201472	200.7	02/08/22:201996
SAR	1.2	0.1	--		200.7	02/08/22:201472	200.7	02/08/22:201996
Total Alkalinity (as CaCO3)	230	10	mg/L		2320B	02/14/22:201725	2320B	02/15/22:202333
Hydroxide as OH	ND	10	mg/L		2320B	02/14/22:201725	2320B	02/15/22:202333
Carbonate as CO3	ND	10	mg/L		2320B	02/14/22:201725	2320B	02/15/22:202333
Bicarbonate as HCO3	280	10	mg/L		2320B	02/14/22:201725	2320B	02/15/22:202333
Sulfate	166	0.5	mg/L		300.0	02/09/22:201510	300.0	02/09/22:202098
Chloride	66	1	mg/L		300.0	02/09/22:201510	300.0	02/09/22:202098
Nitrate as NO3	14.3	0.2	mg/L		4500NO3F	02/08/22:201490	4500NO3F	02/08/22:201973
Nitrite as N	ND	0.2	mg/L		300.0	02/09/22:201510	300.0	02/09/22:202098
Nitrate + Nitrite as N	3.2	0.2	mg/L		4500NO3F	02/08/22:201490	4500NO3F	02/08/22:201973
Fluoride	0.3	0.1	mg/L		300.0	02/09/22:201510	300.0	02/09/22:202098
Total Anions	10.2	---	meq/L		2320B	02/14/22:201725	2320B	02/15/22:202333
pH	8.3	--	units		4500-H B	02/23/22:202139	4500HB	02/23/22:202783
Specific Conductance	927	1	umhos/cm		2510B	02/11/22:201632	2510B	02/11/22:202132
Total Dissolved Solids	590	20	mg/L		2540CE	02/09/22:201521	2540C	02/10/22:202092
MBAS Screen	Negative	0.1	mg/L		5540C	02/05/22:201547	5540C	02/05/22:202018
Aggressiveness Index	13.0	1	--		4500-H B	02/23/22:202139	4500HB	02/23/22:202783
Langelier Index (20°C)	1.2	1	--		4500-H B	02/23/22:202139	4500HB	02/23/22:202783
Nitrate Nitrogen	3.2	0.2	mg/L		4500NO3F	02/08/22:201490	4500NO3F	02/08/22:201973
Metals, Total								
Aluminum	ND	20	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Antimony	ND	1	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Arsenic	3	1	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Barium	53	1	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922

March 16, 2022
 Description : NOJOQUI Creek

Lab ID : CC 2280404-001
 Customer ID : 8-644

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total								
Beryllium	ND	1	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Cadmium	ND	0.2	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Chromium	19	1	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Lead	ND	0.5	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Mercury	ND	0.02	ug/L		245.1	02/08/22:201484	245.1	02/09/22:202106
Nickel	2	1	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Selenium	14	1	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Silver	ND	1	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Thallium	ND	0.2	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Vanadium	7	2	ug/L		200.8	02/07/22:201438	200.8	02/07/22:201922
Wet Chemistry								
Color, Apparent	10	5	units		2120B	02/05/22:202018	2120B	02/05/22:202652
Odor	4	1	TON		2150B	02/05/22:202029	2150B	02/05/22:202668
Turbidity	0.39	0.1	NTU		2130B	02/05/22:201531	2130B	02/09/22:202003

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

KATHERMAN EXPLORATION CO, LLC

Post Office Box 1812
Santa Maria, CA 93456
(805) 928-0223

TO: PLANNING COMMISSION, SANTA BARBARA COUNTY

FROM: CHARLES KATHERMAN, P.G. #4069
HYDROLOGIST FOR NOJOQUI FARM PROJECT

SUBJECT: RESPONSE TO NEWTON MEMORANDUM

DATE: AUGUST 4, 2022

Dear Commissioners,

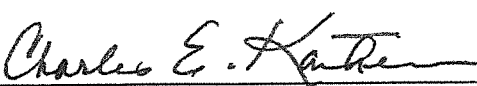
It appears as though the recently received memo from the Appellant's geologist, Mr. Newton, is missing the mark as to the necessary requirements of Santa Barbara County P&D in their analysis of the groundwater conditions and available water supply to adequately service the proposed Nojoqui Project. The subject memo focuses primarily on the application of the Cannabis Cultivation Policy of the State Water Resources Control Board (SWRCB) and passes judgment as to how it might be applied to the subject project (19LUP-00000-00530). **For the record it's not up to the Appellant's geologist to determine how the California Department of Fish & Wildlife (CDFW) will ultimately determine if any conditions and restrictions on pumping are required (through the project LSA) under which the subject project will operate.** Currently as the project hydrologist, my job is to supply the County planners and your Commission with my best interpretation of the actual groundwater conditions underlying the Nojoqui area, as determined by my 35 years of local knowledge and experience, my review of 30+ area well completion reports, the actual testing (pumping) data of the key wells for the project, chemical analyses of the wells produced water and creek surface waters, and the review of the area Dibblee geologic maps and prior geologic reports.

Eighty percent of the Appellant's geologic conclusions are based on his reinterpretation of all of the hydrology work/reports I have produced for this project order to make a point that he believes the project will be subject to the SWRCB/CDFW cannabis rules. Of course the Nojoqui Project is subject to cannabis policy (to the extent that they apply), every cannabis project is. But CDFW's rationale on determining the validity of each project is also based on local hydrologic conditions, area geography, proximity to the riparian areas, climate, the project's historic and future water use, regional water use, basin drawdown or depletion, etc. The Appellant's geologist has produced no independent analysis of the project, such as whether there is adequate water for the project, the viability of the project wells, the viability of the Appellant's wells and the effects of the subject project on the Appellant's water wells.

That said, the following bullet points are important to note in your review:

- * The Nojoqui Area is not a State designated groundwater basin, and therefore is not classified as "in decline". Variation in the groundwater conditions within this small basin generally have occurred due to drought conditions, not from over use of the water supply. Currently there is still surface flow in Nojoqui Creek after three years of drought.
- * The majority of the Nojoqui area water wells also produce water from the older sediments lying beneath the alluvial sediments.
- * The Appellant's hydrology memo fails to address the Appellant's concerns of overdraft in the Nojoqui Creek area. No proof of this overdraft was presented.
- * The Appellant's hydrology memo fails to address whether the Applicant's proposed water use will "constitute deleterious water usage in an already impaired watershed" as quoted by the Appellant. Additionally, no data from the Appellant has been presented that offers proof of an impaired water shed and over usage by the Applicant.
- * The Appellant's wells have failed to produce enough water to support his farming operation for over 30 years prior to the current drought. This has forced him to buy water from a ranch to the south of the Nojoqui Project and from a water well he doesn't own. (personal communication with the Appellant).
- * According to the UC Ag Extension the Appellant's blueberry farming requires 3 times as much water per acre (5000 gallons per day per acre), as the estimated water per acre that will be consumed by the Nojoqui operation.
- * Due to the existence of subsurface clay layers in the Nojoqui Main Water Well, there appears to be a high degree of hydraulic isolation between the water producing zone (both alluvial and older sediments) and the surface or subterranean waters of Nojoqui Creek.

This memo has been prepared and submitted by:



Charles E. Katherman, PG #4069

Date: 8/4/2022