



COUNTY OF HUMBOLDT
PLANNING AND BUILDING DEPARTMENT

3015 H Street • Eureka CA 95501
Phone: (707) 445-7541 • Fax: (707) 268-3792

PLN-11786-CUP
APPEAL

NOTICE OF APPEAL

PROJECT NAME: Humboldt's Own LLC

PROJECT APPLICATION NUMBER: PLN-11786-CUP

APPELLANT INFORMATION:

Name of Person or Organization: Matt Goforth

Mailing Address: 3613 sequoia Ln Eureka CA 95501

Phone Number: 707 448 7435

Email Address: goforth85@gmail.com

GROUND'S FOR APPEAL

The appellant shall state specifically why the decision of the Hearing Officer is not in accord with the standards and regulations of the zoning ordinances, or why it is believed that there was an error or an abuse of discretion by the Hearing Officer (H.C.C. Section 312-13.2)

Attached

(Attach additional page(s) if necessary)

Note: The Board of Supervisors will not hear appeals of the Planning Commission's or Zoning Administrator's decision if said appellant has not given written or oral testimony at the Planning Commission or the Zoning Administrator's hearing level. (H.C.C. Section 312-8.4.8)

(Space Below for Staff Use Only)

Date Filed with Department: _____

Receipt Number: _____

Received by: _____

ATTACHMENT 1

* Revised RECOMMENDED CONDITIONS OF APPROVAL

APPROVAL OF THE SPECIAL PERMIT IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS, WHICH MUST BE SATISFIED BEFORE THE PROVISIONAL CANNABIS CULTIVATION PERMIT CAN BE FINALIZED.

A. General Conditions:

1. The applicant is responsible for obtaining all necessary County and State permits and licenses, and for meeting all requirements set forth by other regulatory agencies.
2. The applicant is required to pay for permit processing on a time and material basis, as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors. The Planning and Building Department will provide a bill to the applicant after the decision. Any and all outstanding planning fees to cover the processing of the application to decision by the Hearing Officer shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka.
3. The applicant is responsible for costs for post-approval review for determining project conformance with conditions. A deposit is collected to cover the staff review. Permit conformance with conditions must be demonstrated prior to release of building permit or initiation of use, and at the time of annual inspection. A conformance review deposit, as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors (currently \$750), shall be paid within sixty (60) days of the effective date of the permit or upon filing of the Compliance Agreement (where applicable), whichever occurs first. Payment shall be made to the Humboldt County Planning Division, 3015 "H" Street, Eureka.
4. A Notice of Determination (NOD) will be prepared and filed with the County Clerk for this project in accordance with the State CEQA Guidelines. **Within three days of the effective date of permit approval**, it is requested that the applicant submit a check or money order for the required filing fee in the amount of \$50 payable to the Humboldt County Clerk/Recorder. If this payment is not received within this time period, the Department will file the NOD and will charge this cost to the project.
5. Within 60 days of the effective date of permit approval, the applicant shall execute a Compliance Agreement with the Humboldt County Planning and Building Department detailing all necessary permits and infrastructure improvements described under Conditions of Approval #6 through #27. The agreement shall provide a timeline for completing all outstanding items. All activities detailed under the agreement must be completed to the satisfaction of the Planning and Building Department before the permit may be finalized and no longer considered provisional.
6. The applicant shall schedule and obtain an onsite Building Division review to ensure that permits for all structures, greenhouses, water tanks or other cannabis and/or residential structures have been obtained. This inspection shall be scheduled within thirty (30) days of permit approval and conducted within three (3) months permit approval. Any structures identified to require permits shall be permitted through the Humboldt County Building Department within two (2) years of the inspection date.

in width) to convey 100-year storm flow and debris.

12. The applicant shall comply with all recommendations and reporting measures set forth in the LSAA (Notification No. 1600-2018-0839-R!), summarized as follows:
 - a. Document all activities that occur within waterways at the project area.
 - b. All work shall be confined to the dry weather period of June 15th through October 1st of each year.
 - c. Water diversion structures shall be constructed and maintained to not inhibit the movement of aquatic life.
 - d. Erosion and runoff protection measures shall be placed and maintained along streambanks prior to any construction activities.
 - e. The proposed work on the stream crossing (described in the condition above) shall be completed by no later than October 15, 2021. Notification of completion shall include photographs of the completed work, erosion control measures, waste containment and disposal, and a summary of any California Natural Diversity Database (CNDDDB) submissions and shall be submitted to CDFW within seven (7) days of project completion.

13. The applicant shall comply with the recommendations identified in the Biological Resources Report prepared by Natural Resources Management Corporation in November 2020:
 - a. Comply with requirements of the relocation plan.
 - b. Adhere to all stream setback requirements.
 - c. Refrain from the use of rodenticides and plastic support netting.
 - d. Avoid sediment runoff by not overwatering plants and properly storing materials.

14. The applicant shall implement the Inadvertent Discovery Protocol. In the event of the accidental discovery of historical artifacts or human remains, a qualified professional archaeologist shall be contacted immediately, in order to inspect and clear the site for all further activities.

15. The applicant shall comply with all corrective actions identified in the Remediation Plan prepared by DTN Engineering & Consulting on December 31, 2020:
 - a. At Site 1-A, dismantle a 6,500-SF greenhouse and remove from the site. Remove all cultivation-related structures and equipment, including garbage and irrigation lines, from the site. Cover exposed soils with straw and seed for stabilization. Replant the flat with native vegetation akin to the existing forest composition in the area (Douglas fir, tanoak, Pacific madrone).
 - b. At Site 1-B, dismantle a 7,600-SF greenhouse and remove from the site. Remove two (2) 3,000-gallon water tanks from the site and clean up the area below the flat of existing junk (recreational vehicle, garbage, dilapidated building materials). Remove all cultivation-related structures and equipment, including garbage and irrigation lines, from the site. Cover exposed soils with straw and seed for stabilization. Replant the flat with native vegetation akin to the existing forest composition in the area (Douglas fir, tanoak, Pacific madrone).
 - c. At Site 2-A, dismantle seven (7) greenhouses and remove from the site. Obtain permits for the residence from the Humboldt County Department of Planning and Building and the Department of Health and Human Services. Remove cultivation waste and transport to offsite soil recycling facility. Discontinue unpermitted water diversion.
 - d. At Site 2-B, dismantle a 2,200-SF greenhouse, outdoor cultivation area, sheds, and nurseries and remove from the site. Obtain permits for two (2) residences from the Departments of Planning and Building and Health and Human Services. Discontinue unpermitted water diversion.

AND FIRE SUPPRESSION SERVICES" for the parcel(s) on a form provided by the Humboldt County Planning and Building Department. Document review fees as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors will be required.

21. The applicant shall be compliant with the County of Humboldt's Certified Unified Program Agency (CUPA) requirements regarding hazardous materials. A written verification of compliance shall be required before any provisional permits may be finalized. Ongoing proof of compliance with this condition shall be required at each annual inspection in order to keep the permit valid.
22. The applicant shall execute and file with the Planning Division the statement titled, "Notice and Acknowledgment regarding Agricultural Activities in Humboldt County," ("Right to Farm" ordinance) as required by the HCC and available at the Planning Division.
23. The owner/operator/applicant shall complete a jurisdictional survey (delineation) for the property and provide the survey and an illustrated and scaled topographic map or site plan to the US Army Corps of Engineers for verification that the project area is outside of the jurisdiction of the Department of the Army.
24. The applicant shall comply with the recommendations of the Soils Report prepared by TVCE in October 7020, including:
 - a. Site preparation. Notify Underground Service Alert prior to any ground-disturbing activities. Perform all earthwork during dry weather conditions. Strip and remove all topsoil and vegetation from within the project area and at least three (3) feet outside the project area. Remove undocumented fill soils and fine-grained residual soils and debris at locations receiving fills.
 - b. Footings. Ensure foundation for all structures is rigid and designed to provide additional bearing area for application of structure loadings. Embed a minimum of twelve (12) inches into dense, undisturbed native bearing soils. Comply with requirements of California Building Code (CBC) Section 1809.
 - c. Floor slab design. Comply with specifications of the Soils Report and as specified by the project engineer.
 - d. Grading. All cut and fill slopes shall be 2:1 or flatter. Fill material shall be placed in lifts not to exceed nine (9) inches in depth and shall be compacted to a minimum of 90% relative compaction. Finished grading shall provide a minimum slope of 2% away from buildings and foundations for a minimum of ten (10) linear feet.
 - e. Compaction standards. Fills shall be compacted in 8-inch loose lifts with clean native materials at optimum moisture content as determined and approved by the project engineer. Non-structural fills shall be compacted to a firm unyielding surface as approved by the project engineer.
 - f. Fills. Comply with specifications of the Soils Report and as specified by the project engineer.
 - g. Drainage and landscaping. The site shall be graded to provide drainage such that no water is allowed to migrate beneath proposed developments. No rainwater impoundment is permitted onsite or at the base of cuts.
 - h. Erosion control. Comply with specifications of the Soils Report and as specified by the project engineer.
25. Within sixty (60) days of the effective date of project approval, the applicant shall submit a revised site and operations plan to include no more than 6,480 SF devoted to ancillary propagation. This amount is ten (10) percent of the total cultivation area proposed on the site.

Subject: Re: Water storage COA

From: Jason Goforth <goforth85@gmail.com>

Date: 10/22/2021, 10:14 AM

To: Teisha Mechetti <teisha@agdynamix.com>, NRM Prairie <pmoore@nrmcorp.com>

It looks like my best option might be an appeal. Can we get together to discuss how we can go about that and what the argument may look like.

On Oct 22, 2021, at 9:54 AM, Johnson, Cliff <CJohnson@co.humboldt.ca.us> wrote:

Hi Jason,

This is the condition they added.

28. The applicant shall develop an alternative water source (rainwater catchment or additional storage) to accommodate water needs for 50% of new cultivation. New cultivation shall include 9,800 SF of cultivation under the initial Special Permit and 30,200 SF of cultivation under the Special Permit for the Retirement, Relocation, and Remediation (RRR) program. Therefore, 50% of the water for 40,000 SF of outdoor cultivation shall come from an alternative water source. The applicant shall install monitoring/tracking devices onsite to show that 50% of the irrigation water is derived from an alternative water source. The applicant shall receive appropriate permits from the Humboldt County Department of Planning and Building and other relevant departments prior to construction of an alternative water source. Plans for the development of an alternative water source shall be submitted to the Department of Planning and Building within three (3) months of project approval.

Which looks to me will require 166,000 gallons of additional storage. Just this last Tuesday the Board overturned a similar condition on a project on appeal though their water usage was less and their well was a little higher producing.

-----Original Message-----

From: Jason Goforth <goforth85@gmail.com>

Sent: Friday, October 22, 2021 9:38 AM

To: Johnson, Cliff <CJohnson@co.humboldt.ca.us>; Teisha Mechetti <teisha@agdynamix.com>; NRM Prairie <pmoore@nrmcorp.com>

Subject: Water storage COA

Can I please get some guidance on what exactly the water storage COA will require. I was confused by the commissions discussion and exactly how they wanted to calculate this as it didn't apply to my entire project. With the supply chain issues that are happening at the moment I need to be very proactive to make sure i can fulfil this condition by next years growing season.



County of Humboldt
 Planning and Building Department
 3015 H Street Eureka CA 95501

PLN-11786-CUP
 AARAL

FEEES AND CHARGES WORKSHEET
PLANNING PERMIT APPLICATION FEES
EFFECTIVE MARCH 29, 2021

PERMIT REVIEW - FULL COST RECOVERY		Deposit	Amount
Agricultural Preserve Contract, Amendment, Cancellation	Public Hearing	\$ 1,600.00	
Agricultural Preserve Successor Contract	Public Hearing	\$ 350.00	
CEQA Study		Actual Cost	
Coastal Development Permit	Administrative	\$ 1,500.00	
Coastal Development Permit	Public Hearing	\$ 4,500.00	
Condition & Mitigation Monitoring		\$ 750.00	
Conditional Use Permit		\$ 4,500.00	
Determination of Status & Certificate of Compliance		\$ 825.00	
Emergency Permit		\$ 575.00	
Environmental Impact Report (EIR) Preparation		Actual Cost	
Extension or Modification		\$ 875.00	
General Plan Amendment or Zone Reclassification	Public Hearing	\$ 2,850.00	
GIS & Map Data Request		\$ 150.00	
Information Request		\$ 150.00	
Joint Timber Management Plan Review	Public Hearing	\$ 300.00	
Lot Line Adjustment	Public Hearing	\$ 1,850.00	
Lot Line Adjustment	Administrative	\$ 1,000.00	
Minor Deviation		\$ 500.00	
Notice of Merger		\$ 500.00	
Permit Provided by Contracted Services (Consultant)		Contract Rate + 20%	
Planned Unit Development	Public Hearing	\$ 1,500.00	
Preliminary Review	Administrative	\$ 500.00	
Public Road Name Change	Public Hearing	\$ 850.00	
Special Permit	Administrative	\$ 1,400.00	
Special Permit	Public Hearing	\$ 3,250.00	
Subdivision (Final Map - FMS or Parcel Map - PMS)	Public Hearing	\$ 2,000.00	
Surface Mining Permit / Reclamation Plan Permit including renewal	Public Hearing	\$ 2,000.00	
Variance		\$ 1,500.00	
Zoning Clearance Certificate		\$ 2,750.00	
PERMIT REVIEW - FIXED FEES		Fees	Amount
Administrative Enforcement Agreement		\$ 250.00	
Appeal to Board of Supervisors / Planning Commission	Public Hearing	\$ 1,000.00	1000.00
Application Assistance (2-hour minimum; applies to project)		\$ 291.00	
Burn Down Letter		\$ 130.00	
Cannabis Permit Transfer/Change		\$ 150.00	
Development/Use Started Without Permit		Double Permit Fee	
General Plan Conformance Review		\$ 250.00	
General Plan Petition		\$ 800.00	
Inland Design Review		\$ 475.00	
Cal Fire Timberland Exemption Administrative		\$ 125.00	
Home Occupation Permit, Substantial Conformance Review, Timber Harvest Plan			
Background Check, Business License Renewal, Cottage Industry, Building Application Referral		\$ 100.00	
Legal Document Review		\$ 120.00	
Notices/Referrals (per parcel per year)		\$ 5.00	
Re-application Fee (to renew an expired permit when the extension is filed within 90 days of expiration and the project and codes are unchanged)		50% of original permit fee	
Zone Boundary Interpretation		\$ 660.00	
OTHER FEES & CHARGES		Fee/Deposit	Amount
Addressing: Assignments (max \$400 for 5 or more)		\$ 80.00	
Change of Address		\$ 60.00	
Verification of Address		\$ 30.00	
Public Noticing		Actual Cost	
State Responsibility Area (SRA) Map Check Fee		\$ 25.00	
Wide Format Map Printing (Black & White) per square foot		\$ 1.00	
Wide Format Map Printing (Color) per square foot		\$ 1.50	
Notary Certificate		\$ 15.00	
Notice Sign		\$ 10.00	
Tentative Map Street Name Review		\$ 90.00	
Technology Fee: Administrative Review Permit		\$ 45.00	
Technology Fee: Conditional Use Permit		\$ 450.00	
Technology Fee: Special Permit		\$ 325.00	
Technology Fee: Coastal Development Permit		\$ 450.00	
Technology Fee: Subdivision		\$ 200.00	
Technology Fee: Other Public Hearing Project		10% x Permit Cost	100.00
General Plan User Fees: Residential Development		\$ 240.00	
Commercial Development		\$ 350.00	
Industrial Development		\$ 650.00	
Post application review of road abandonment		\$ 310.00	
Post application review of performance contract		\$ 310.00	
North West Information Center		\$ 75.00	
PLANNING DIVISION AMOUNT			\$ -

OTHER DEPARTMENT REVIEW FEES	Fee/Deposit	Amount
ASSESSOR		
Lot Line Adjustment (per parcel) or Merger [per request]	\$	75.00
New Subdivision Processing (per lot)	\$	100.00
Parkland Appraisal (for Subdivisions) [additional charge over 1 hour is \$77/hour]	\$	132.50
BUILDING DIVISION		
Review Fee [per inspection]	deposit \$	100.00
ENVIRONMENTAL HEALTH DIVISION		
Extensions [.5 hr minimum]	\$	149.00
Final Map Inspection / Land Use Permits for Commercial Development	\$	298.00
Project Review [additional charge over 1 hr is \$149/hr]		
Subdivisions w/community sewer, residential use permits, and some lot line adjustments	\$	149.00
Project Appeal	\$	596.00
Subdivision / Lot Line Adjustment with on-site sewage disposal	per parcel ____ x \$	447.00
COUNTY COUNSEL [deposit listed based on per hour]		
Administrative Review Process		
Administrative Coastal Development Permit / Public Hearing Extension	deposit \$	134.00
Certificate of Compliance / Determination of Status	deposit \$	134.00
Information Request	deposit \$	134.00
Public Hearing Review Process		
Major Subdivision Review / Projects requiring two public hearing	deposit \$	1,206.00
Minor Subdivision Review / Projects requiring one public hearing	deposit \$	603.00
Zoning Administrator Hearing	deposit \$	134.00
Post Application Review		
Appeal to Board of Supervisors	deposit \$	536.00
PUBLIC WORKS LAND USE		
Base Project Review Fees [highest base fee used for projects with multiple components]		
Agricultural Preserve Contract	\$	195.00
Certificate of Compliance	\$	195.00
Coastal Development Permit	\$	351.00
Conditional Use Permit	\$	351.00
Determination of Status	\$	195.00
General Plan Amendment / Petition	\$	195.00
Lot Line Adjustment	\$	195.00
Notice of Merger	\$	195.00
Parcel Map Waiver Application [actual costs]	deposit \$	300.00
Preliminary Review [actual costs 1st two hrs free] minimum + 45% overhead	deposit \$	250.00
Special Permit	\$	351.00
Subdivision - Minor (4 lots or less)	\$	1,690.00
Subdivision - Major (PUD/FMS 5 parcels or more) [actual costs + 45% overhead]	deposit \$	1,500.00
Variance	\$	195.00
Zone Reclassification	\$	195.00
Zoning Clearance Certificate	deposit \$	351.00
Other Project Fees [in addition to base project review fees]		
Appeal or Rehearing + 45% overhead	deposit \$	250.00
Extensions - Subdivision	\$	67.00
Extensions - all others	\$	67.00
Legal Description Review [per parcel]	deposit \$	292.00
Revised Map / Revised Project Description / Modification [other than tentative map]	\$	251.00
Revised Tentative Subdivision Map / Revised Project Description / Modification	\$	419.00

536.00

AMOUNT COLLECTED FOR OTHER DEPARTMENTS

\$ -

Planning Division Fees (from previous page)

\$ -

TOTAL PAYABLE TO HUMBOLDT COUNTY PLANNING DIVISION

\$ 1636.00

This worksheet includes fees charged by the Planning Division and other reviewing agencies. Some application types are Fixed Fee while others are subject to Full Cost Recovery. The deposit estimates listed are used for typical applications. Actual costs and processing time may be more or less than the estimate depending on the completeness of the application packet and identification, post-application submittal, of technical or environmental issues by reviewing agencies.

Fees Payable to Others

Archeological Review: Payable to Bear River Band THPO Department	\$	30.00
Archeological Review: Payable to Blue Lake Rancheria THPO	\$	30.00
Archeological Review: Payable to Wiyot Tribe Cultural Department	\$	30.00

- ~ Applicant is responsible for paying 100% of the actual Planning Division permit costs.
- ~ If processing costs exceed 80% of the deposit an additional deposit will be required to continue application processing.
- ~ Fees for other County of Humboldt Departments are collected at the time of application submittal.
- ~ Double fees are assessed for all projects started without required permits.
- ~ Additional charges may be required for administratively approved projects if a public hearing is requested.

Applicant Signature _____

Date _____

I am appealing the Condition of Approval which states: *The applicant shall develop an alternative water source (rainwater catchment or additional storage) to accommodate water needs for 50% of new cultivation. New cultivation shall include 9,800 SF of cultivation under the initial Special Permit and 30,200 SF of cultivation under the Special Permit for the Retirement, Relocation, and Remediation (RRR) program. Therefore, 50% of the water for 40,000 SF of outdoor cultivation shall come from an alternative water source. The applicant shall install monitoring/tracking devices onsite to show that 50% of the irrigation water is derived from an alternative water source. The applicant shall receive appropriate permits from the Humboldt County Department of Planning and Building and other relevant departments prior to construction of an alternative water source. Plans for the development of an alternative water source shall be submitted to the Department of Planning and Building within three (3) months of project approval.*

Grounds for this appeal are as follows. Cannabis Ordinance 2.0 allows for the use of ground water as a source of irrigation. The well supplying irrigation water for this project is a ground water well. Please see attached well report and letter from Fisch Drilling. The well was investigated by engineering geologist David Lindberg and determined to be hydrologically isolated. Please see attached report. This well is not connected to surface waters and under Cannabis Ordinance 2.0 can be used as the sole source for irrigation. Although no storage is required the project already proposes 67,500 gallons of storage capacity. I request that the Board of Supervisors remove this Condition of Approval.

LINDBERG GEOLOGIC CONSULTING

David N. Lindberg, CEG

Post Office Box 306

Cutten California 95534

(707) 442-6000

October 1, 2021

Project No: 0420.00

Mr. Jason Goforth

Post Office Box 172

Petrolia, California 95558

Subject: Hydrologic Isolation of Existing Well from Surface Waters
702 Chambers Road, Petrolia, Assessor's Parcel Number 105-071-006

To Whom It May Concern:

As requested, Lindberg Geologic Consulting assessed your existing permitted well on the above-referenced parcel to estimate the potential for hydrologic connectivity with adjacent wells, surface waters or wetlands, and if pumping this well could affect adjacent wells, wetlands, or surface waters in Mill Creek. Mill Creek is a tributary of the Mattole River (Figure 1). In our opinion the subject well is unlikely to be hydrologically connected to nearby wells, wetlands and surface waters in any manner that could affect the adjacent wetlands and or surface waters in Mill Creek. Fisch Drilling of Hydesville drilled this well under county permit (#16/17-0721) in August 2017. Fisch is a licensed (C-57 #683865) well-drilling contractor. Fisch submitted the well completion report (DWR 188) on August 16, 2017 (attached). Fisch Drilling estimated the yield of the well at 20 gallons per minute on August 11, 2017, based on a 4-hour pumping test. The well location is shown on Figures 1 - 3. The driller has expressed his opinion that this well has "no hydraulic connection to any surface water or any part of a larger shallow homogeneous aquifer."

Borehole diameter is 10 inches, and drilled depth is 160 feet. A bentonite surface seal was installed from grade to 20 feet below the ground surface (bgs). From the surface to the total depth, the well was constructed of 5.5-inch diameter, PVC pipe, and from 22 feet bgs to the total completed depth of 160 feet bgs, the annulus was backfilled with #3 well sand. The well is cased through the shallow subsurface aquifer from which the nearest neighbors draw water. This well is screened (0.032" slots) from 140 to 160 feet. Depth to static water level in the completed and developed well was 18 feet bgs in 2017, suggesting the deep aquifer is under artesian pressure.

Parcel 105-071-006 (Figure 2) encompasses approximately 37 acres. The subject well is located at latitude 40.320425° north, and longitude 123.269634° west. This well is in the southwest ¼ of Section 2, T2S., R5E, HB&M (Figure 2). Based on the Humboldt County WebGIS mapping, this well is approximately 1,000 feet southeast of the nearest mapped perennial stream, Mill Creek. This well is also approximately 600 feet south of an unnamed ephemeral tributary to Mill Creek, and approximately 110 feet north of another unnamed ephemeral of Mill Creek tributary (Figure 1). Based on interpolation from the USGS Petrolia topographic quadrangle map (Figure 1), and the Humboldt County WebGIS, well elevation is approximately 200 feet above sea level. Elevation of the perennial branch of Mill Creek at the nearest point to the well is approximately 110 feet. The elevation of the nearest ephemeral tributary of Mill Creek is estimated to be less than 200 feet.

LINDBERG GEOLOGIC CONSULTING
(707) 442-6000

October 1, 2021

Project No: 0420.00

Page 2

On the geologic map (Figure 4) the area is underlain by a Quaternary alluvial terrace, which we interpret to be ancient, abandoned floodplain of the Mattole River. This terrace has been uplifted by tectonics, and the river has down cut, keeping pace with sea level fluctuations. Terrace deposits (Qal) are described by McLaughlin (2000) as consisting of "Alluvial deposits of Holocene and late Pleistocene (?) age. Consisting of clay, silt, sand, gravel, and boulders, deposited in stream beds, alluvial fans, terraces, flood plains and ponds; and soils formed on these deposits. Includes largely Holocene deposits in modern stream channels and on flood plains."

On this parcel, McLaughlin (2000) mapped the ancient alluvial terrace deposits as underlain by Coastal Belt Franciscan mélangé. In the field, alluvial terrace deposits are relatively uniform and consist of fine to medium grain sediments (silt and sand with clay). Alluvial deposits continue southeast to the modern Mattole River, based on the geologic mapping by McLaughlin (2000).

Materials reported on the geologic log of the well completion report suggest the alluvial terrace deposits are approximately 60 feet thick, terminating below the "blue rounded gravel" shown on the driller's log from 37 to 58 feet. From 58 to 142 feet, the formation consists of low transmissivity shale. Below 142 feet of depth, the driller noted "fractured sandstone" to 157 feet, then "Franciscan formation" from 157 to 160 feet, the total depth of this well.

In our professional opinion, based on our experience, site observations, and review of pertinent information available, this well has a negligible likelihood of having any direct connection to nearby wells or surface waters. Our conclusion is supported by the fact that the well on 105-071-006 is cased through the upper producing zone. Depth to the water producing zone in fractured sandstone at 142 to 157 feet is approximately 84 feet below the base of the blue rounded gravel" upper production zone.

To the best of our knowledge, the nearest two wells, on parcels 105-071-007 and 105-101-004, are less than 100 feet deep, and are thus producing water from a perched aquifer in the quaternary alluvium. The well installation report for parcel 105-071-007 puts its depth at only 70 feet. Based on distances estimated from Google Earth satellite imagery, the well on parcel 105-071-007, is more than 250 feet east-southeast of the subject well. The well on parcel 105-101-004 is more than 380 feet east-southeast of the subject well. The well on parcel 105-071-007 is 70 feet. Because we could find no records in the DWR database of the well on parcel 105-101-004, we assume it to be unpermitted and less than 90 feet deep, based on the DWR report of average depth for a domestic well in the section.

The nearest neighboring well is greater than 250 feet southeast of the subject well. The subject well was completed 84 feet deeper than the nearest neighboring well, in fractured sandstone bedrock; the nearest neighboring well was completed in sand and gravel, and shale and blue clay, at a depth of 70 feet. More than 80 feet of shale separate the water producing zones in the two wells. Hydraulic conductivity in shale is reported to range from 1×10^{-13} meter per second (m/s) to 2×10^{-9} m/s, several orders of magnitude lower than sand and gravel (9×10^{-7} to 2×10^{-4} m/s). Wells on parcels 105-071-007 and 105-101-004, and on 105-101-013 all appear to be drawing

LINDBERG GEOLOGIC CONSULTING
(707) 442-6000

October 1, 2021

Project No: 0420.00

Page 3

from the shallow aquifer which is hydrologically distinct and separate from the deeper aquifer producing water at 105-071-006. The water source at 105-071-006 appears to be a subsurface aquifer isolated from the near-surface aquifer and not hydraulically connected to nearby domestic wells, surface waters, or wetlands.

In our professional opinion, it appears that the aquifer tapped by the subject well is recharged by water infiltrating from a distant source area upland of the Qal alluvial terrace deposits, probably to the north and northeast. The "Water Level and Yield of Completed Well" section of the Well Completion Report estimated the yield of this well at 20 gallons per minute (gpm) on August 11, 2017. A four-hour pump test conducted that day, shows the static water level dropped 106 feet, to 133 feet, when pumped at a rate of 20 gpm, suggesting no recharge from the shallow, sand and gravel aquifer at 45 to 60 feet.

In our opinion, the subject well is not hydrologically connected to, or influencing surface water flows or nearby wells, Mill Creek tributaries, or ephemeral wetlands. Given the horizontal distances involved, and the elevation differences between the water-producing zone in the subject well, other nearby domestic wells, and the surface waters of the nearby tributaries of Mill Creek and the Mattole River, the potential for hydrologic connectivity between nearby domestic wells, surface waters and groundwater in the shallow alluvial aquifer is negligible. Further, given the apparent limiting condition of 84 feet of low-transmissivity shale, the fractured sandstone aquifer is hydrologically distinct from the overlying aquifer in the Qal alluvial deposits

Please contact us if you have questions or concerns regarding our findings and conclusions.

Sincerely,

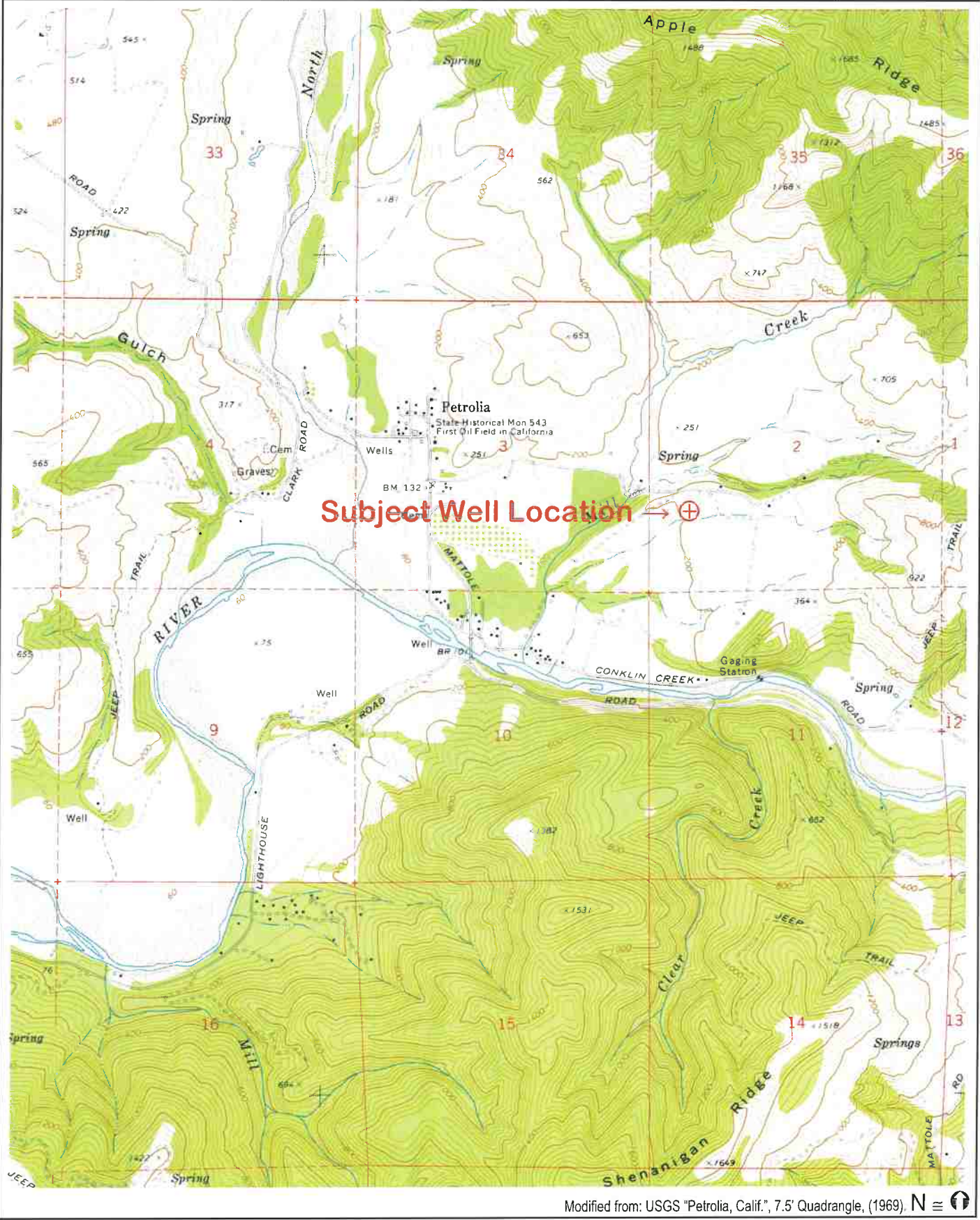
David N. Lindberg, CEG
Lindberg Geologic Consulting

DNL:sll

Attachments:

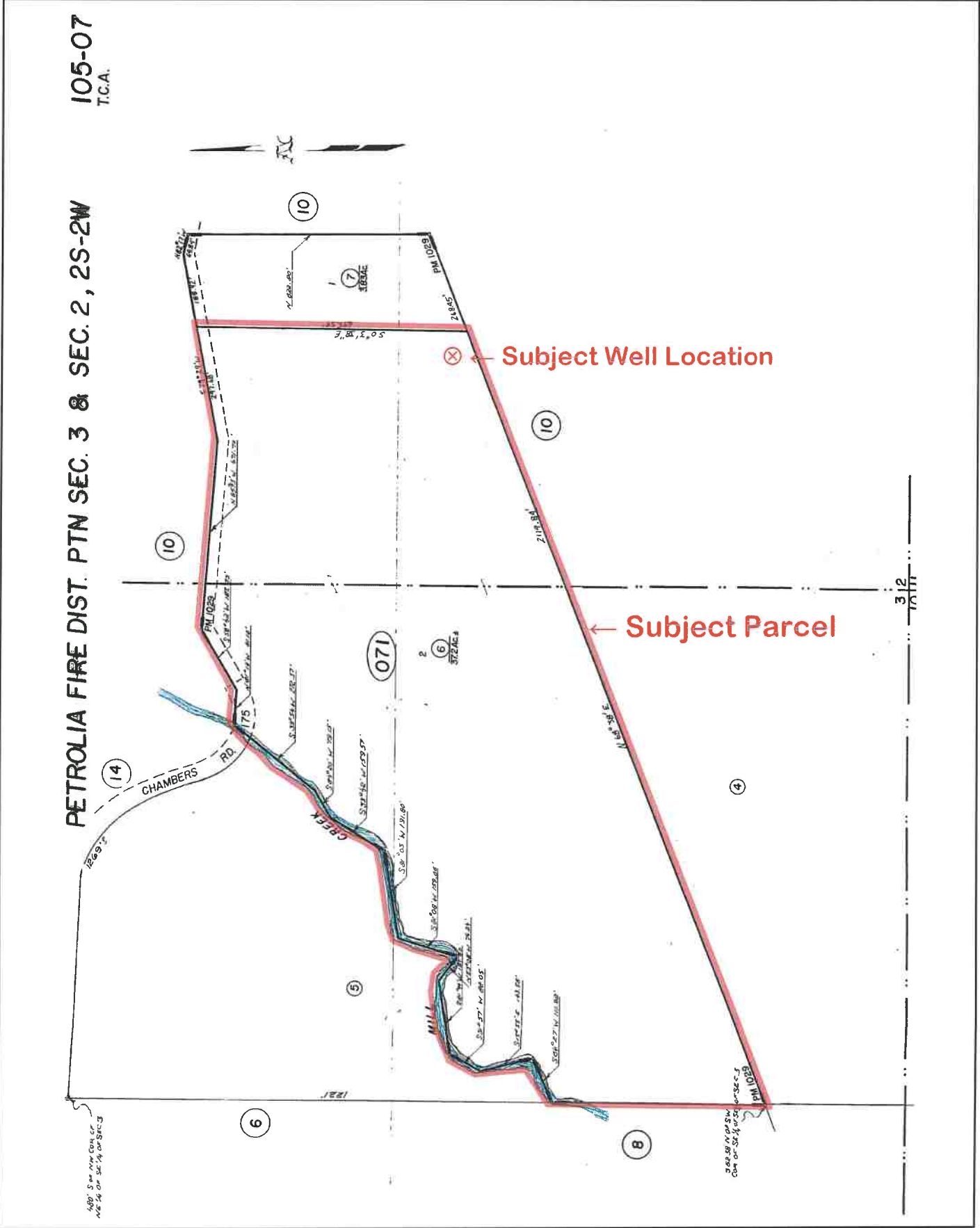
- Figure 1: Topographic Map of Well Location
- Figure 2: Assessor's Parcel Map of 105-071-006
- Figure 3: Satellite Image of Wellsite and Vicinity
- Figure 4: Geologic Map

Lindberg Geologic Consulting	Engineering Geologic Well Hydrologic Isolation Report	Figure 1
Post Office Box 306	702 Chambers Road, APN: 105-071-006, Petrolia	October 1, 2021
Cutten, CA 95534	Mr. Jason Goforth, Client	0420.00
(707) 442-6000	Topographic Map of Well Location (locations approximate)	1" ≈ 350'

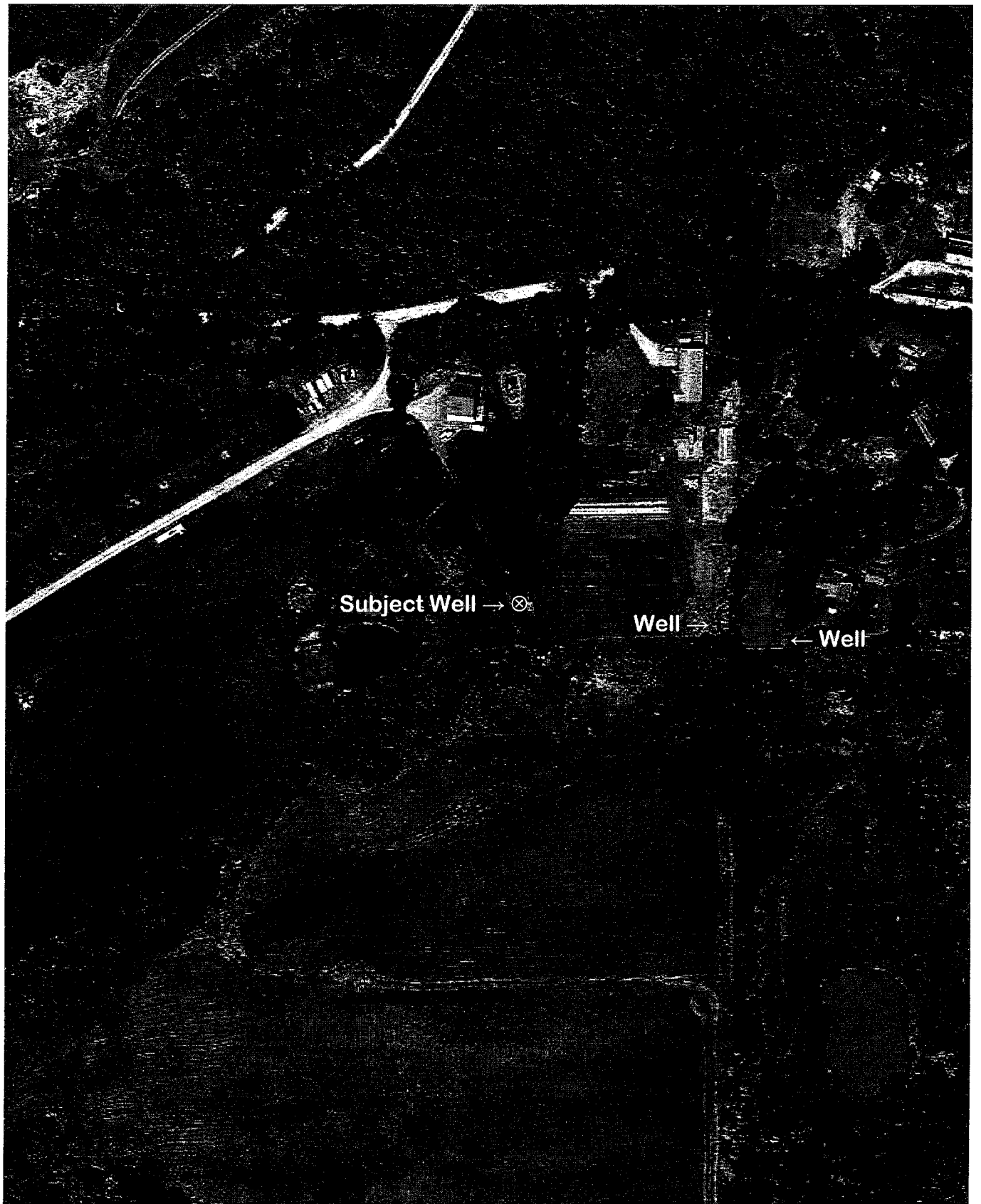


Modified from: USGS "Petrolia, Calif.", 7.5' Quadrangle, (1969) N

Lindberg Geologic Consulting	Engineering Geologic Well Hydrologic Isolation Report	Figure 2
Post Office Box 306	702 Chambers Road, APN: 105-071-006, Petrolia	October 1, 2021
Cutten, CA 95534	Mr. Jason Goforth, Client	0420.00
(707) 442-6000	Humboldt County Assessor's Parcel Map (locations approximate)	1" ≈ 200'



Lindberg Geologic Consulting	Engineering Geologic Well Hydrologic Isolation Report	Figure 3
Post Office Box 306	702 Chambers Road, APN: 105-071-006, Petrolia	October 1, 2021
Cutten, CA 95534	Mr. Jason Goforth, Client	0420.00
(707) 442-6000	Satellite Image Site Plan (locations approximate)	1" ≈ 350'

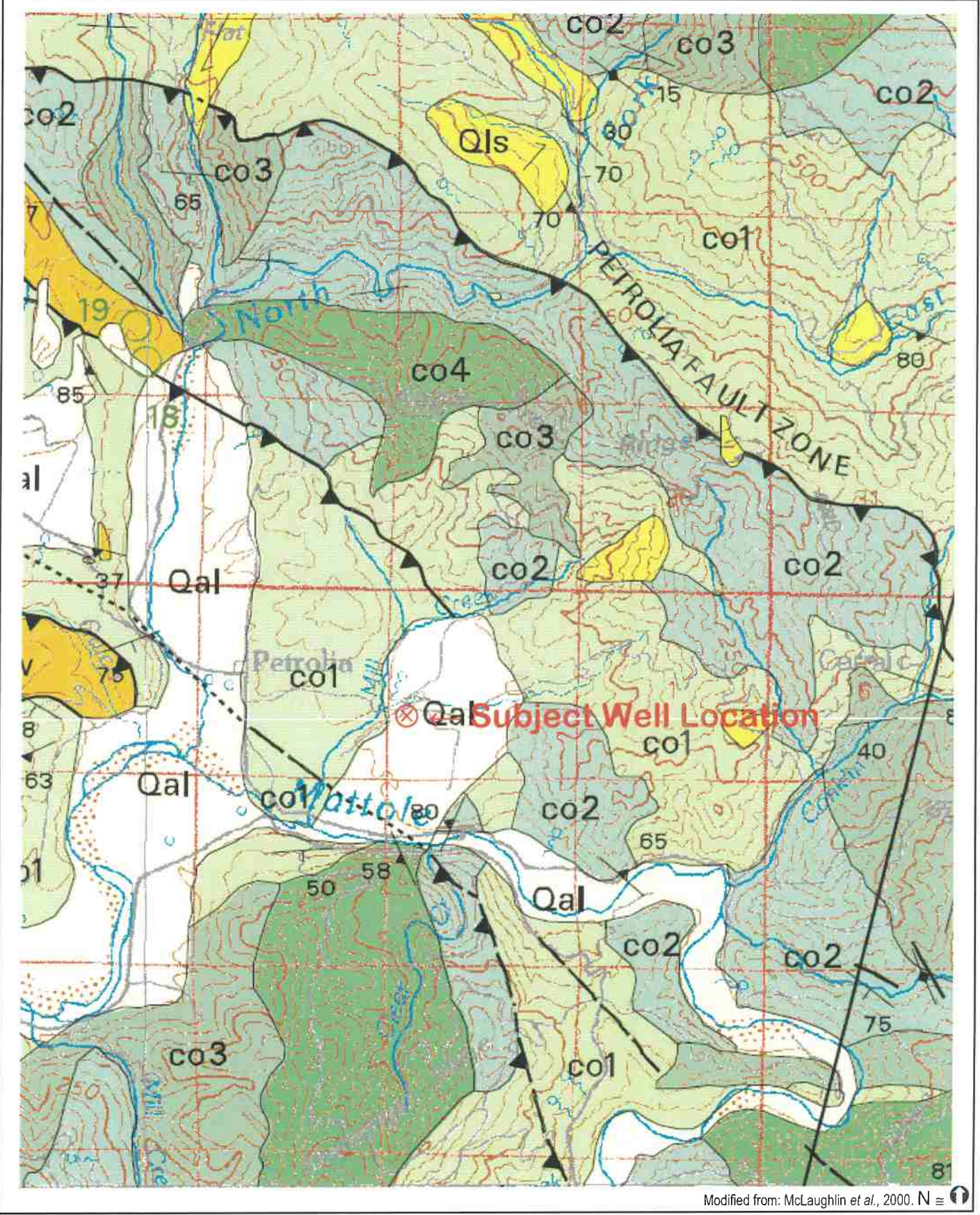


Subject Well → ⊗

Well →

← Well

Lindberg Geologic Consulting	Engineering Geologic Well Hydrologic Isolation Report	Figure 4
Post Office Box 306	702 Chambers Road, APN: 105-071-006, Petrolia	October 1, 2021
Cutten, CA 95534	Mr. Jason Goforth, Client	0420.00
(707) 442-6000	Geologic Map of Project Area (locations approximate)	1" ≈ 3,800'



Modified from: McLaughlin et al., 2000. N

DESCRIPTION OF MAP UNITS

QUATERNARY AND TERTIARY OVERLAP DEPOSITS

Qal	Alluvial deposits (Holocene and late Pleistocene?)
Qm	Undeformed marine shoreline and alluvial deposits (Holocene and late Pleistocene)
Qt	Undifferentiated nonmarine terrace deposits (Holocene and Pleistocene)
Qls	Landslide deposits (Holocene and Pleistocene)
QTog	Older alluvium (Pleistocene and/or Pliocene)
QTw	Marine and non-marine overlap deposits (late Pleistocene to middle Miocene)
Ti	Volcanic rocks of Fickie Hill (Oligocene)

COAST RANGES PROVINCE FRANCISCAN COMPLEX

-- Coastal Belt --

Coastal terrane (Pliocene to Late Cretaceous)

Sedimentary, igneous, and metamorphic rocks of the Coastal terrane (Pliocene to Late Cretaceous):

co1	Melange
co2	Melange
co3	Broken sandstone and argillite
co4	Intact sandstone and argillite
cob	Basaltic Rocks (Late Cretaceous)
col	Limestone (Late Cretaceous)
m	Undivided blueschist (Jurassic?)

King Range terrane (Miocene to Late Cretaceous)

Krp	Igneous and sedimentary rocks of Point Delgada (Late Cretaceous)
m	Undivided blueschist blocks (Jurassic?)

Sandstone and argillite of King Peak (middle Miocene to Paleocene?)

krk1	Melange and/or folded argillite
krk2	Highly folded broken formation
krk3	Highly folded, largely unbroken rocks
krl	Limestone
krc	Chert
krb	Basalt

False Cape terrane (Miocene? to Oligocene?)

fc	Sedimentary rocks of the False Cape terrane (Miocene? to Oligocene?)
-----------	--

Yager terrane (Eocene to Paleocene?)

Sedimentary rocks of the Yager terrane (Eocene to Paleocene?):

y1	Sheared and highly folded mudstone
y2	Highly folded broken mudstone, sandstone, and conglomeratic sandstone
y3	Highly folded, little-broken sandstone, conglomerate, and mudstone
Ycgl	Conglomerate

-- Central belt --

Melange of the Central belt (early Tertiary to Late Cretaceous):

Unnamed Metasandstone and meta-argillite (Late Cretaceous to Late Jurassic):

cm1	Melange
cm2	Melange
cb1	Broken formation
cb2	Broken formation
cwr	White Rock metasandstone of Jayko and others (1989) (Paleogene and/or Late Cretaceous)
chr	Haman Ridge graywacke of Jayko and others (1989) (Cretaceous?)
cfs	Fort Seward metasandstone (age unknown)
cls	Limestone (Late to Early Cretaceous)

cc	Chert (Late Cretaceous to Early Jurassic)
bs	Basaltic rocks (Cretaceous and Jurassic)
m	Undivided blueschist blocks (Jurassic?)
gs	Greenstone
c	Metachert
yb	Metasandstone of Yolla Bolly terrane, undivided
b	Melange block, lithology unknown

-- Eastern Belt --

Pickett Peak terrane (Early Cretaceous or older)

Metasedimentary and metavolcanic rocks of the Pickett Peak terrane (Early Cretaceous or older):

ppsm	South Fork Mountain Schist
mb	Chinquapin Metabasalt Member (Irwin and others, 1974)
ppv	Valentine Springs Formation
mv	Metabasalt and minor metachert

Yolla Bolly terrane (Early Cretaceous to Middle Jurassic)

Metasedimentary and metaigneous rocks of the Yolla Bolly terrane (Early Cretaceous to Middle Jurassic?):

ybt	Tallaferro Metamorphic Complex of Suppe and Armstrong (1972) (Early Cretaceous to Middle Jurassic?)
ybc	Chicago Rock melange of Blake and Jayko (1983) (Early Cretaceous to Middle Jurassic)
gs	Greenstone
c	Metachert
ybh	Metagraywacke of Hammerhorn Ridge (Late Jurassic to Middle Jurassic)
c	Metachert
gs	Greenstone
sp	Serpentinite
ybd	Devils Hole Ridge broken formation of Blake and Jayko (1983) (Early Cretaceous to Middle Jurassic)
c	Radiolarian chert
ybi	Little Indian Valley argillite of McLaughlin and Ohlin (1984) (Early Cretaceous to Late Jurassic)

Yolla Bolly terrane

yb	Rocks of the Yolla Bolly terrane, undivided
-----------	---

GREAT VALLEY SEQUENCE AND COAST RANGE OPHIOLITE

Elder Creek(?) terrane

ecms	Mudstone (Early Cretaceous)
ecg	Coast Range ophiolite (Middle and Late Jurassic)
ecsp	Layered gabbro
ecsp	Serpentinite melange

Del Puerto(?) terrane

Rocks of the Del Puerto(?) terrane:

dpm	Mudstone (Late Jurassic)
dpm	Coast Range ophiolite (Middle and Late Jurassic)
dpt	Tuffaceous chert (Late Jurassic)
dpb	Basaltic flows and keratophytic tuff (Jurassic?)
dpd	Diabase (Jurassic?)
dpsp	Serpentinite melange (Jurassic?)
sp	Undivided Serpentinized peridotite (Jurassic?)

Klamath Mountains Province

Undivided Great Valley Sequence:

Ks	Sedimentary rocks (Lower Cretaceous)
-----------	--------------------------------------

GREAT VALLEY SEQUENCE OVERLAP ASSEMBLAGE

Hayfork terrane

Eastern Hayfork subterrane:

eh	Melange and broken formation (early? Middle Jurassic)
ehls	Limestone
ehsp	Serpentinite

Western Hayfork subterrane:

whu	Hayfork Bally Meta-andesite of Irwin (1985), undivided (Middle Jurassic)
whwg	Wildwood (Chanchelulla Peak of Wright and Fahan, 1988) pluton (Middle Jurassic)
whwp	Clinopyroxenite
whji	Diorite and gabbro plutons (Middle? Jurassic)

Battlesnake Creek terrane

rcm	Melange (Jurassic and older)
rcls	Limestone
rcc	Radiolarian chert
rcls	Volcanic Rocks (Jurassic or Triassic)
rclc	Intrusive complex (Early Jurassic or Late Triassic)
rcp	Plutonic rocks (Early Jurassic or Late Triassic)
rcum	Ultramafic rocks (age uncertain)
rcpd	Blocky peridotite

Western Klamath terrane

Smith River subterrane:

srs	Galice? formation (Late Jurassic)
srv	Pyroclastic andesite
srgb	Glen Creek gabbro-ultramafic complex of Irwin and others (1974)
srpd	Serpentinized peridotite

MAP SYMBOLS

	Contact
	Fault
	Thrust fault
	Trace of the San Andreas fault associated with 1906 earthquake rupture
	Strike and dip of bedding:
	Inclined
	Vertical
	Horizontal
	Overtured
	Approximate
	Joint
	Strike and dip of cleavage
	Shear foliation:
	Inclined
	Vertical
	Folds:
	Synclinal or synformal axis
	Anticlinal or antiformal axis
	Overtuned syncline
	Landslide
	Melange Blocks:
	Serpentinite
	Chert
	Blueschist
	Greenstone
	Fossil locality and number



3150 JOHNSON RD.
HYDESVILLE, CA.
(707)768-9800
dave@fischdrilling.com

February 12, 2020

Matt Goforth
Melissa Cohen
P.O. Box 172
Petrolia, CA. 95558

Matt Goforth/Melissa Cohen
Chambers, road.
Petrolia, CA. 95558

Results of site review of Cohen property, APN 105-071-006. The well site in question is located Chambers road, on parcel 105-071-006 this well was completed august 11 2017.

The well was completed in the Franciscan Sandstone; the well was drilled and constructed into perched bedrock with no hydraulic connection to any surface water or any part of a larger shallow homogeneous aquifer.

Considering the depth of the well, it appears to falls within guidelines of a non-jurisdictional well of similar depth in the surrounding area.

Any questions please call (707)768-9800.

Thank You,

A handwritten signature in black ink, appearing to read "David Fisch", is written over a large, stylized graphic element that resembles a signature or a logo.

David Fisch
Fisch Drilling

State of California
Well Completion Report
WCR Form - DWR 188 Submitted 08/16/2017
WCR2017-003624

Owner's Well Number 1 Date Work Began 08/02/2017 Date Work Ended 08/11/2017
Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program
Secondary Permit Agency _____ Permit Number 16/17-0721 Permit Date 02/17/2017

<p style="text-align: center;">Well Owner (must remain confidential pursuant to Water Code 13752)</p> Name <u>Melissa Cohen</u> Mailing Address <u>P.O. Box 172</u> City <u>Petrofia</u> State <u>CA</u> Zip <u>95558</u>	<p style="text-align: center;">Planned Use and Activity</p> Activity <u>New Well</u> Planned Use <u>Water Supply Irrigation - Agriculture</u>
--	---

Well Location	
Address <u>702 Chambers RD</u>	APN <u>105-071-006</u>
City <u>Petrofia</u> Zip <u>95558</u> County <u>Humboldt</u>	Township <u>02 S</u>
Latitude _____ N Longitude _____ W	Range <u>02 W</u>
Deg. Min. Sec. Deg. Min. Sec.	Section <u>02</u>
Dec. Lat. <u>40.3204250</u> Dec. Long. <u>-124.2696340</u>	Baseline Meridian <u>Humboldt</u>
Vertical Datum _____ Horizontal Datum <u>WGS84</u>	Ground Surface Elevation _____
Location Accuracy _____ Location Determination Method _____	Elevation Accuracy _____
	Elevation Determination Method _____

<p style="text-align: center;">Borehole Information</p> Orientation <u>Vertical</u> Specify _____ Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Bentonite</u> Total Depth of Boring <u>160</u> Feet Total Depth of Completed Well <u>160</u> Feet	<p style="text-align: center;">Water Level and Yield of Completed Well</p> Depth to first water <u>18</u> (Feet below surface) Depth to Static _____ Water Level <u>27</u> (Feet) Date Measured <u>08/11/2017</u> Estimated Yield* <u>20</u> (GPM) Test Type <u>Air Lift</u> Test Length <u>4</u> (Hours) Total Drawdown <u>133</u> (Feet) *May not be representative of a well's long term yield.
--	--

Geologic Log - Free Form		
Depth from Surface	Feet to Feet	Description
0	3	top soil
3	18	brown silty clay
18	23	blue silty clay
23	37	shale
37	58	blue rounded gravel
58	142	shale
142	157	fractured sandstone
157	160	franciscan formation

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	140	Blank	PVC	OD: 5.563 in. SDR: 21 Thickness: 0.265 in.	0.265	5.563			
1	140	160	Screen	PVC	OD: 5.563 in. SDR: 21 Thickness: 0.265 in.	0.265	5.563	Milled Slots	0.032	

Annular Material

Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	20	Bentonite	Other Bentonite		Sanitary Seal
20	160	Filter Pack	Other Gravel Pack		Well Sand #3

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	160	10

Certification Statement

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

Name _____ FISCH DRILLING

Person, Firm or Corporation

3150 JOHNSON ROAD HYDESVILLE CA 95547

Address City State Zip

Signed *electronic signature received* 08/16/2017 683865

C-57 Licensed Water Well Contractor Date Signed C-57 License Number

Attachments

Scan.pdf - Location Map

DWR Use Only

Site Number / State Well Number

| | | | | | | | | N

| | | | | | | | | W

Latitude Deg/Min/Sec Longitude Deg/Min/Sec

TRS: _____

APN: _____