

Hydrology Report to Determine Area of Influence for Cultivation Irrigation Wells

for

Ghost Dance LLC

Site Location: APN: 014-140-12 21080 Loconomi Rd Middletown, CA 95461

September 28, 2021



Prepared for:

Lake County
Community Development Department
255 North Forbes Street
Lakeport, CA 95453



INTRODUCTION

The purpose of this study is to determine the area of influence of an existing well that will be used for irrigating a proposed commercial cannabis cultivation site. The "Project" is currently proposing about 43,560 sq.ft. (1 acre) of commercial cannabis canopy area.

The parcels on which the project is located are owned by Ghost Dance LLC and managed by Alex Paul & Michael Colbruno.

This report estimates the amount of water available and recharge rate during a drought year from the existing well. In addition, this report estimates the zone of influence to the surrounding area and estimates the cumulative impacts where interference is with existing wells.

The report comes as a result from the County of Lake urgency ordinance requiring land use applicants to provide enhanced water analysis during a declared drought emergency. Ordinance no. 3106.

STUDY LIMITATIONS

The yield of wells cannot be estimated with precision because of the uncertainty with the aquifer and the amount of rain percentage of rainfall that percolates through the ground. Therefore, conservative estimates and assumptions are used in this report.

This study is based on the following information and assumptions.

- Cooper Jacob well equation
- Well Completion Reports obtained from Lake County EHD and CA Dept. of Water Resources Database
- Well Yield Test and Drillers Reports
- Rainfall for a drought year is 20% of annual precipitation
- Aquifer is uniform throughout the wells area of influence



WELL

Well #1 is the well that will be used for irrigating the proposed cultivation project. A radius of influence was calculated for well #1, and all other wells that were located 1000 ft outside of well #1's radius of influence. See Well Area of Influence Map in Appendix B.1. Wells included in calculations are wells #2 - #6, excluding well #3 because of no data available. Since there was no data for well #3 an assumed 300 ft area of influence was applied. See the Surrounding Area Map in Appendix B.2 for the 1000 ft radius. Locations of other wells outside the 1000 ft radius are depicted with coordinates on the Surrounding Area Map in Appendix B.2. All wells were located using information gathered from the County of Lake Environmental Health Department, CA Department of Water Resources, and a site visit by Vanderwall Engineering on 9/16/2021. See well descriptions below.

WELL #1

- Southern vicinity of APN: 014-140-12.
- There is no well drillers report available for this well. Data for this well was provided by a well performance test. See Appendix A.
- Total drill depth of 54 feet below the top of casing.
- The capacity of the well is at least 5.67 gpm.
- Use: "Project Loco" Commercial Cannabis Irrigation

WELL #2

- Eastern vicinity of APN: 014-140-12.
- This well is located on a 50' easement and provides domestic use to the dwelling unit at address 21095 Loconomi rd. See Appendix A
- Total drill depth of 50 feet below the surface.
- The capacity of the well is at least 100 gpm.
- Use: Domestic for Dwelling Unit



WELL #3

- Eastern vicinity of APN: 014-140-12.
- There are no well drillers reports or well performance tests available by the state or county for this well. The well was located via Vanderwall Engineering site visit and JAK Drilling and Pump site visit. See Appendix A & B.
- Total drill depth is unknown.
- The capacity of the well is unknown.
- Use: Domestic for Dwelling unit.

WELL #4

- Southern vicinity of APN: 014-140-09.
- See Appendix A for well drillers report and Appendix B for well maps.
- Total drill depth of 45 feet below the surface.
- The capacity of the well is at least 30 gpm.
- Use: Domestic for Dwelling Unit

WELL #5

- Center vicinity of APN: 014-140-13.
- See Appendix A for well drillers report and Appendix B for well maps.
- Total drill depth of 105 feet below the surface.
- The capacity of the well is at least 100 gpm.
- Use: Unknown.

WELL #6

- Center vicinity of APN: 014-140-14.
- See Appendix A for well drillers report and Appendix B for well maps.
- Total drill depth of 100 feet below the surface.
- The capacity of the well is at least 75 gpm.
- Use: Unknown.

See Appendix A for Well Completion/Drillers Reports and JAK Drilling & Pump Well Production Report.



WELL RADIUS OF INFLUENCE

The well radius of influence (cumulative impact) is estimated by the Cooper-Jacob equation:

$$R_{(well)} = \sqrt{\frac{2.24584Tt}{S}}$$

Where.

 $R_{\text{(well)}} = \text{Radius of Influence (m)}$

t = time (days)

 $T = transmissivity (m^2 / day)$

S = water storage capacity (%) unitless

$$T = K *b$$

Where,

K = 2.0 E-4 m/s for Basalt porosity

b = (Total Drill Depth of Well) - (pump depth below clay layer in Well Driller's Report in Appendix A)

t = 1 day = 86,400 sec

S = 0.15

Therefore;

 $R_{(1)} = 53 \text{ m} = 172 \text{ feet}$

 $R_{(2)} = 50 \text{ m} = 165 \text{ feet}$

 $R_{(3)}$ => Unknown (A conservative 300 ft radius is assumed based on values for the other wells)

 $R_{(4)} = > 40 \text{ m} = 130 \text{ feet}$

 $R_{(5)} = 79 \text{ m} = 261 \text{ feet}$

 $R_{(6)} = > 77 \text{ m} = 252 \text{ feet}$

Well #1's radius of influence does not intersect with the radius of influence of any other surrounding wells. See Well Area of Influence Map in Appendix B.1. An overlap of well radius of influence only occurs for wells #2, #3, and #4. Said wells do not affect the water being sourced from the proposed projects well (Well #1).

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WELLS IN SURROUNDING AREA

Data from existing wells in the area were obtained through the County of Lake Environmental Health Department, CA Department of Water Resources, and a site visit by Vanderwall Engineering on 9/16/2021. The next closest well to the subject well is located on APN: 014-140-13 approximately 330 feet from Well #1's Radius of influence.

WATER USAGE

The proposed project has a total canopy area of 1 acre (43,560 sf) with one Processing Buildings for 2 employees during grow season and 4 employees during harvest season. These values were used for calculating the total water usage in gallons per year. See calculations below.

WATER USAGE FOR WELL #1

The total water usage of the canopy area is estimated by the square footage of the canopy multiplied by the ft/year needed for a single cannabis plant. The ft/yr is estimated to be similar to a tomato plant, which is 20in/year or 1.66 ft/year.

$$W_{Irrigation} = A * (ft/yr)$$

$$W_{Irrigation} = (1 \text{ acres}) * (43,560 \text{ sf/acres}) * (1.66 \text{ ft/year}) * (7.48 \text{ gal/cf})$$

 $W_{Irrigation} = 540,875 \text{ gal/year}$

 $W_{Processing Building}$ (Harvest) = (4 employees) * (15 gals/employee/day) * (0.7 days/week used) * (91 days/year) = 3,822 gal/year

 $W_{Processing\ Building}$ (Non-Harvest) = (2 employees) * (15 gals/employee/day) * (0.7 days/week used) * (274 days/year) = 5,754 gal/year

$$W_{Processing Building} = 3,822 + 5,754 = 9,576 \text{ gal/year}$$

Total Water Usage =
$$W_{Irrigation}$$
 + $W_{Processing Building}$
= 540,875 gal/year + 9,576 gal/year
= 550,451 gal/year

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AQUIFER RECHARGE

The proposed project has an estimated total annual water usage of 550,451 gallons per year.

The calculations of Aquifer Recharge are based on the tributary area to the radius of influence of Well #1. Per Well Recharge Area Map shown in Appendix B.3, the recharge area is 1,584,442 sf.

Given: Annual Precipitation, P = 40 inches per year, assume a drought year is 20% of the annual precipitation, yields 8" (0.66ft) of rainfall. (Note: Rainfall of 2021 was 9" per NOAA for Lake County)

Volume of water for recharge = Area x Drought Precipitation x Coefficient of Seepage.

 $V = (1,584,442 \text{ sf}) \times (0.66 \text{ ft/yr}) \times (7.48 \text{ gal/cf}) \times (0.7)$

V = 5,475,451 gal/year

5,475,451 > 550,451 therefore the well is adequate to handle the 1.0 acre of cultivation in a drought year.

CONCLUSION

Per our calculations and assumptions, the project does have a more than adequate water supply for at least double the proposed irrigation use. Even in a drought year, our estimates show that the well has the capacity to handle more than double the proposed water irrigation needs of the project, without impacting the surrounding neighbor's wells.

DISCLAIMER

Our calculations are based on data that has been made available to Vanderwall Engineering through state and county records as of 9/16/2021. All supporting data has been provided in this report. There is no way to guarantee future conditions. If new supporting data is provided, calculations would need to be redone to take into account for said data.

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Appendix

- A. Well Completion & Test Results
- B. Maps
 - B1. Well Area of Influence Map
 - B2. Surrounding Aerial Map
 - B3. Well Recharge Area

Appendix

Α



Hole to Home

WELL PERFORMANCE TEST REPORT

Client Name: Alex Paul

Property Location: 21080 Loconomi Road, Middletown, CA

Parcel Number: 014-140-12

Number of Wells Evaluated: One (Well #2) #1

Well Performance Test Completion Date: June 4, 2021

Water Samples Collected: No Pump Technician: K. Feola

Location Description: 38.750500, -122.573605 **Total Depth**: 54-feet below top of casing*

Depth to Static Water Level: 19.5-feet below the top of casing

Diameter of well: 5.5-inches

Casing type: PVC
Test Duration: 6-hours

Test Type: Pump

Pumping Rate: 5.67-Gallons Per Minute (GPM)

Observations: The well is located near the edge of property in the field southeast of the house (see attached Parcel Boundary and Well Location Maps). There is an existing submersible well pump installed in the well of unknown specifications. It is assumed the submersible pump system is a 1-horse, 10-GPM set.

Well Performance Pump Test:

The six-hour pump test was conducted on June 4, 2021 using the existing submersible pump set in accordance with industry standards. The static water level within the well was measured prior to the start of the test. Once the performance test began, the depth-to-water or pumping level was measured manually with a Powers Water Meter in the well every five minutes during the first half hour of the test and then every 10-minutes for the next hour of the test. The measurement interval was then increased to every 30-minutes for the remainder of the six-hour test. The pumping rate was measured by timing the flow through a temporarily installed totalizing flow meter connected to the discharge pipe directed away from the well location. The pumping rate was measured at the same intervals as the pumping level. Both the depth-to-water/pumping level and pumping rate measurements are summarized in the attached table.

The static water level was measured at 19.5-feet below the top of casing at the start of the performance test. The pumping level quickly stabilized at 47-feet below the top of casing where it remained for the duration of the test. The pumping rate, measured by timing the flow through the totalizing flow meter, measured at 15.5-GPM after the first 5-minutes of the test and then decreased to 6-GPM for the next hour before decreasing again to 5.5-GPM. The pumping rate remained at 5.5-GPM for the duration of the test.



After six hours of pumping, the well produced 2,040-gallons of water which averages out to a pumping rate of 5.67-GPM. At the end of the test the well pump was shut off and the well was then allowed to rest and recharge. The depth-to-water was measured in the well after 10-minutes at 37.5-feet and then again in the well after 30-minutes at 22.00-feet below the top of casing, resulting in a recharge rate of 90% after resting 40-minutes. Assuming all other variables are constant, at 5.67-GPM the well would be capable of producing 2,978,400-gallons annually.

Water Quality: During the course of the performance test, JAK collected a water sample for the purpose of a field quality test with the following results:

Parameter	Concentration	Discussion				
Hardness	19-Grains per gallon	VERY HARD, a softener is recommended when the				
nai uliess	13-Grains per gailon	hardness is greater than 7-gpg				
		VERY HARD, a softener is recommended when the hardness is greater than 7-gpg EPA suggests a concentration of less than 0.3ppm for public drinking water system, higher concentrations can cause rust staining over time A pH of 7.0 is considered neutral Less than 500-ppm is acceptable, the higher the				
Iron (ferrous)	0.2-part per million	public drinking water system, higher concentrations				
рН	8.00	A pH of 7.0 is considered neutral				
Total Dissolved Solids	177 part par trillian	Less than 500-ppm is acceptable, the higher the				
Total Dissolved Solids	177-part per trillion	concentration the harder the water typically				

Disclaimer:

Observations made of the well(s) are strictly limited to the date and time that the test(s) was conducted and are in no way a guarantee of future conditions, including but not limited to the quantity and/or quality of the water produced by this well. Please feel free to contact our office if there are any questions regarding the well test and/or well test report.

Sincerely,

Jessica Moreno JAK Drilling & Pump

Attachments:

Parcel Boundary Map Well Location Map

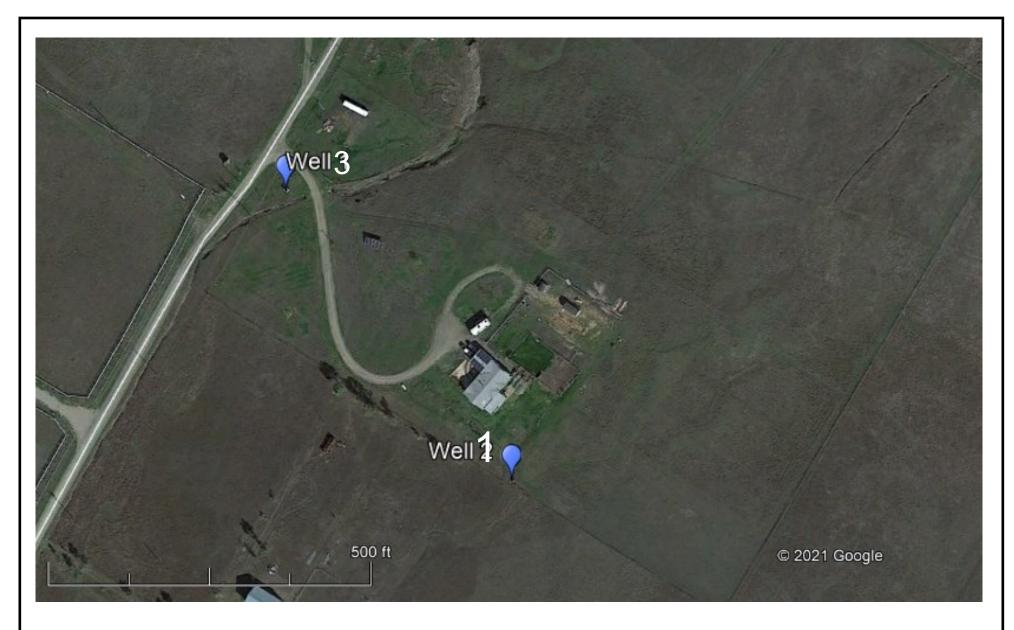
Table 1: Well Performance Test Data





PARCEL BOUNDARY MAP 21080 Loconomi Road Middletown, CA







WELL LOCATION MAP 21080 Loconomi Road Middletown, CA





TABLE 1 WELL PERFORMANCE TEST DATA 21080 Loconomi Road, Middletown, CA June 4, 2021

		Depth to Water				
Time	Gallons Per Minute	In Feet Below Top of Casing				
7:15	Static	19.50				
7:20	15.50	28.00				
7:25	6.00	47.00				
7:30	6.00	47.00				
7:35	6.00	47.00				
7:40	6.00	47.00				
7:45	6.00	47.00				
7:55	6.00	47.00				
8:05	6.00	47.00				
8:15	6.00	47.00				
8:25	6.00	47.00				
8:35	6.00	47.00				
8:45	6.00	47.00				
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11:15	5.50	47.00				
11:45	5.50	47.00				
12:15	5.50	47.00				
12:45	5.50	47.00				
13:15	5.50	47.00				
13:25	RECHARGE	37.50				
14:05	RECHARGE	22.00				

NOTES:

Flow rate measured by timing flow through totalizing flow meter.

Meter Start	Meter End	Total Volume Produced
252150	254190	2.040-gallons

Average Pumping Rate = 2040 gallons/360 Minutes = 5.67-GPM Recharge Rate = $(((47.0-22.0) \div (47.0-19.5)) \times 100) = 90.91\%$

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LAKEPORT OFFICE 922 BEVINS COURT LAKEPORT, CA 95453 (707) 263-2222

(707) 994-2257

LAKE COUNTY PUBLIC HEALTH DEPARTMENT DIVISION OF ENVIRONMENTAL HEALTH

WELL #2

JOB LOCATION ADDRESS: 21095 LOCONOMI RD ASSESSOR'S PARCEL #: 014-140-12 Parcel Size: 2 18 ACRES Property Owner: Eugene Witzel Phone No.: Mailing Address: POBOX 894 Middletown
WELL DRILLER: LARRY HERMAN DRILLING
Mailing Address: 13011 Hay 29 COWER LAKE, CA Telephone #: 994-4914 CA C-57 License #: 465071
TYPE OF WORK: New Well Reconstruction Destruction Test Well Other:
PROPOSED USE: Domestic Public Monitoring Agriculture Industrial Test Well Other:
CONSTRUCTION: Cable Tool Mud Rotary Air Rotary Other Casing Type & Standard VC FUSO Wall Thickness 60 Diameter 4/2 Proposed Depth of Seal 20 Bore Hole Diameter 9 Variance
Seal Material:
Is location of proposed well subject to flooding? Describe known flooding conditions:
WELL DRILLER'S SIGNATURE: Jany Herma Date: 5-12-00
* * * * PLEASE COMPLETE THE ATTACHMENTS * * * * THIS PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUANCE FIELD CONDITIONS MAY WARRANT CHANGES OF THIS PERMIT
* * * * PLEASE DO NOT WRITE BELOW THIS LINE * * * *
Date Received: 5/12/2000 Fee Paid: \$/60.00 Receipt No.: 737605 100 Year Flood Plain? No Yes Zone: C Elevation: Minimum Casing Height: feet above ground surface Date Issued: 6-6-2000 Issued By:
Seal Scheduled for: ata.m./p.m. Requested by:
Seal Cancelled on: ata.m./p.m. Requested by:
Seal Scheduled for: ata.m./p.m. Requested by:
Site #2 Seal Depth:Ft. Total feet below ground surface Annular Seal Verified by: 6-6-200
Destruction Verified by: Well Log Received on: \(\partial \chi \chi \chi \chi \chi \chi \chi \chi
FINAL APPROVAL BY: Julie Rmedel Date: 69/15/04
EH/WELL/8-92 WELL PERMIT NO.: WE 1880

21-25815

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DRAW TO SCALE ANY OF THE FOLLOWING WITHIN 200 FEET OF THE WELL

- 1. Well/wells existing and proposed
- 2. Property lines, if over 200 feet
- 3. Easements or roads
- All existing and proposed sewage disposal systems within 100 feet, adjacent parcels included
- Any facilities or piping designed to carry or hold sewage
- Any storage or mixing area which involves Hazardous Materials
- 7. Any structures

None of the items above are within 200 feet of the well .50' 501 014-140-12 DRAWN TO THE SCALE OF 1''=25'

10N /Olew - OleM Do not fill in

ORIGINAL

File with DWR

ent No._

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

177964

ent No.	WAIER WELL DI	RILLERS REPORT State Well No
1 No. or Date		Other Well No
	•	(10) 11771 100
WELL #4		(12) WELL LOG: Total depth 45 ft. Depth of completed well 45 ft.
VVLLL #4		from ft. to ft. Formation (Describe by color, character, size or material)
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		WELL DRILLER'S STATEMENT
(10) WATER LEVELS: Depth of first water, if known 30	ft.	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and base.
Standing level after well completion	ft.	1/ // lann - lann a
(11) WELL TESTS: Was well test made? Yes M No □ If yes, b	y whom? Oriller	SIGNED (Well Driller)
Type of test Pump Bailer		NAMELAMY Herman Krilling
Depth to water at start of testft.	At end of testft	Person, firm or corporation at Typed or printed
Discharge gal/min after hours	Water temperature	Address Tin 95457
172	y whom?	License No. 46807/ Date of this report 1-13-86
	tach copy to this report	
DWR 188 (REV. 7-76) IF ADDITIONAL SPA	CE IS NEEDED. USE N	EXT CONSECUTIVELY NUMBERED FORM

STATE OF CALIFORNIA

WELL #5

Do not fill in

(GINAL

JUL 101992

THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES e with DWR No. 324252 WATER WELL DRILLERS REPORT State Well No. /ox/07w-/m ce of Intent No. AP011-140-13 Local Permit No. or Date _ (12) WELL LOG: Total depth 205 ft. Completed depth 205 ft. ft. Formation (Describe by color, character, size or material) (2) LOCATION OF WELL (See instructions): Owner's Well Number <u>696</u> ŻŚ Well adding Militerent from above ___ sama 38 Range / M Distance from cities roads, railroads, fences etc Hishway Zg Loconom; (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 Municipa WELL LOCATION SKETCH (5) EQUIPMENT: Rotary Reverse 🗌 Cable [Other (7) CASING INSTALLED: Steel 🔲 Gage or Wall From ft. 0 AUG 1 4 1992 (9) WELL SEAL: Was surface sanitary seal provided? Yes No : No : If yes, to depth ZO Were strata sealed against pollution? Yes Concret Method of sealing ___ Work started 6 19 72 Completed (10) WATER LEVELS: WELL DRILLER'S STATEMENT: Depth of first water, if known. This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Standing level after well completion. (11) WELL TESTS: If yes, by whom? No 🗌 well test made? Yes 🔼 Pump 🔲 Bailer 🗌 Air lift NAME Person, firm, or compration) (Typed or printed) to water at start of test 22 At end of test ... Water temperature _____ Discharge 100 gal/min after = Address Chemical analysis made? Yes No 🔼 If yes, by whom?

Yes 🗌

If yes, attach copy to this report

AGINAL e with DWR

WELL #6

STATE OF CALIFORNIA THE RESOURCES AGENCY

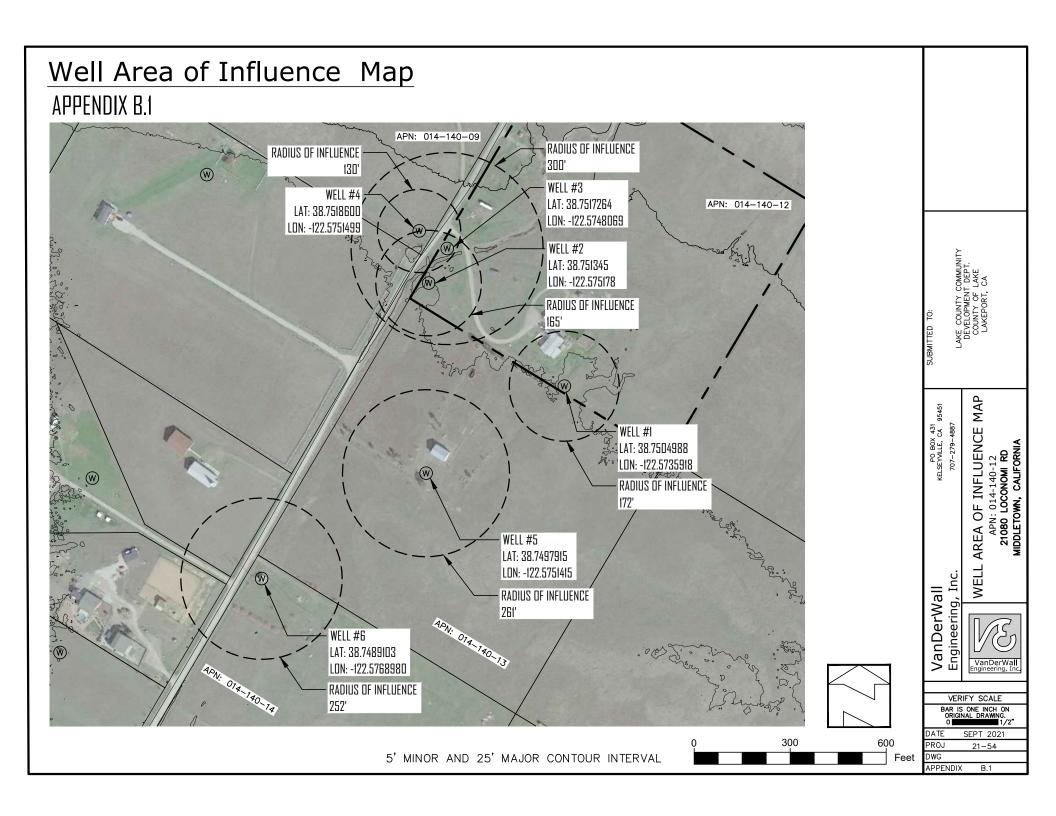
DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

10N/07W-06M 10N/07W-01M not fill in No. 236886

Intent No.	WATER WELL DI	State Well No	•
(1)	,	(12) WELL LOG: Total depthft. Depth of co	
Addre		from ft. to ft. Formation (Describe by color, character	, size or material)
City_		0 -5 Top 5011	
(2) LOCATION OF WELL (See instruc	etions):	3 -23 Jandy Clay	<i></i>
	Well Number	23 - 40 Grave / 1	44 0
Well address if different from above # 01	4-140-14-01	40-90 Grave Em 6	edded
Township /O/V Range 6 W	Section	- Inclass	
Distance from cities, roads, railroads, fencesetc		90 - 100 Exavel	
21/32 LA - 3 + 4		- \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
		- ()	
		-	
	(3) TYPE OF WORK:		
	New Well Deepening		
	Reconstruction	-	
L N	Reconditioning	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
(D)	Horizontal Well	G 11 - 161	
(# 3)	Destruction [(Describe		
6,000	destruction materials and procedures in Item 12		
12 3	(4) PROPOSED USE		
	Domestic		
1 1 16 2	Irrigation	1-12 VOD 2	
1 1 15 2.	Industrial 📋	() \(\frac{1}{2} \)	
	Test Well	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
YOMI RD. R OV	Stock	- 0000	
	Municipal D	B (G. A)	
WELL LOCATION SKETCH (5) EQUIPMENT: (6) GRAVE	Other PACK:	7-3	·
	Size		
	- /n (1		
- ////	200 500	1(0)	
Other Bucket Packed from (7) CASING INSTALLED: (8) PERFORM	C C C C C C C C C C C C C C C C C C C		
(1) 011111111111111111111111111111111111	ration or size of screen	-	
Steel Plastic Concrete Type of perfect	traction of size of screen		
From To Dia. Case or From	To Slot		
ft. ft. vin. Wall ft.	<u> </u>		
0 100 60 160 30	100 13	-	···-
			FEB 05 987
	1 (1111)	_	
(9) WELL SEAL:	V	-	
the state of the s	If yes, to depthft.	<u> </u>	
	lo Intervalft.	W 1 1 V 2 / 0	D- 2 2 11 23
Method of sealing Cement		Work started 19 Completed WELL DDILLER'S STATEMENT.	190
(10) WATER LEVELS: Depth of first water, if known 35	ft.	WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is	01562
Standing level after well completion	ft.	knowledge and belief	to me best of n
(11) WELL TESTS:		SICKED any Herman	
Was well test made? Yes ₩ No □ If yes, 1	by whom? OWNCY	(Well Driller)	Di 11
Type of test Pump Bailer Bailer	78 C	(Person, firm, or corporation) (Typed or p	rinted)
Depth to water at start of testft.		Address //32/ #wy 29	
Discharge gal/min after hours	Water temperature	city Lower Lake.	Zip 95457
			A
malysis made? Yes \(\bar{\cap}\) No \(\bar{\cap}\) If yes, \(\bar{\cap}\) Was electric log made? Yes \(\bar{\cap}\) No \(\bar{\cap}\) If yes, \(\bar{\cap}\)	ottach copy to this report	License No. 304/38 Date of this report	9-6-83

Appendix

В



Surrounding Area Map APPENDIX B.2 APN: 014-140-10 APN: 014-140-11 WELL #4 WELL #3 LAT: 38.7518600 LAT: 38.7517264 LON: -122.5751499 LON: -122.5748069 WELL LOCATION APN: 014-140-19 APN: 014-140-12 LAT: 38.752313 WELL #2 LON: -122.577351 LAT: 38.751345 LON: -122.575178 SURROUNDING AREA MAP APN: 014-140-32 PO BOX 431 KELSEYVILLE, CA 95451 **WELL LOCATION** WELL #1 LAT: 38.749037 WELL LOCATION LAT: 38.7504988 LON: -122.567101 LAT: 38.7496333 LON: -122.5735918 LON: -122.5784859 WELL #5 LAT: 38.7497915 LON: -122.5751415 WELL #6 WELL LOCATION LAT: 38.7489103 APN: 014-140-06 LAT: 38.7456232 LON: -122.5768980 Engineering, Inc. LON: -122.5714997 WELL LOCATION VanDerWall LAT: 38.748288 LON: -122.579083 WELL LOCATION LAT: 38.7453470 LON: -122.5721099 VERIFY SCALE 1800 APPENDIX B.2

