permit SONOMA

County of Sonoma
Permit & Resource Management Department

CERTIFICATION OF WATER YIELD IN WATER SCARCE AREAS

WLS-010

Permit Sonoma shall be notified 24 hours in advance of this test

Water Yield Number _____ Well Permit Number Wel 21-0414

1. Individual performing test: Jacob Emschweiler
2. Type of license/registration, number and expiration date: CAL. LIC. C57-424778
3. Location of well: _____
4. Address: 4707 Bloomfield Rd., Petaluma, CA 94952 APN: _____
5. Type and model of test pump: 10LS15
6. Test pump setting depth: 280'
7. Maximum reported yield for this pump type at this setting: _____
8. Type of discharge measurement method: 1 1/4" pipe
9. Type and model of flow meter (or provide an accurate description of weir or orifice plate): Badger 1" NSF61
10. Geographic coordinates (Plane Coordinate Method or distance from fixed landmarks): 38°19' 50" N, 122° 50' 42" W
11. Estimated elevation of well head: 130 ft.
12. Initial static water level (include measuring points such as top of casing, surface seal, access port): 48' from top of casing
13. Date & time of initial static water level measurement: 09 / 08 / 21 8:45am AM/PM
    a. Discharge Rate: 4.0 GPM
    b. Dynamic Water Level: 88'
    c. Specific Capacity: 0.1
    d. Pump Test duration: 8 hours
14. Immediately after the test take the following measurements:
    a. Dynamic water level: 88'
    b. Final discharge rate: 4.0 GPM
15. Post - Test Measurement:
    a. Dynamic water level: 88'
    b. Static water level: 36' 7"
    c. Percentage of recovery of final static level: 100%

Testing performed by (signature): _____ Date: 09/08/2021

Company Jerry & Don's Yager Pump & Well Phone Number: (707) 762-1473

Specialist _____ Date _____

Approved ☐ Denied ☐

E-MAILED SEP 30 2021

WELL PUMP TEST DATA RECORDATION ADDRESS:

Date	Time	Interval	SWL	GPM	Comments
09/0/21	9:55	1 Min	48'	22.5	Meter Reading: 63,769
	9:56	1 Min	61.5	22.5	
	9:57	1 Min	74.6'	22.0	
	9:58	1 Min	89.4'	21.1	
	9:59	1 Min	103.1'	19.2	
					Pumped off at 10:02
	10:05	5 Mins	144.7'	3.2	Pumped 232-gallons
	10:10	5 Mins	134.2'	3.2	
	10:15	5 Mins	128.6'	3.2	
	10:20	5 Mins			
	10:25	5 Mins	112.4'	4.4	
	10:30	5 Mins		4.4	
	10:35	5 Mins	108.3'	4.5	
	10:40	5 Mins	106'	4.5	
	10:45	5 Mins	104'	4.5	
	10:50	5 Mins	98.2'	4.5	
	10:55	5 Mins	99'	4.5	
	11:00	5 Mins	94.2'	4.5	
	11:20	20 Mins	88'	4.0	
	11:40	20 Mins	88'	4.0	
	12:00	20 Mins	88'	4.0	
	12:30	30 Mins	88'	4.0	
	1:00	30 Mins	88'	4.0	
	1:30	30 Mins	88'	4.0	
	2:00	30 Mins	88'	4.0	
	2:30	30 Mins	88'	4.0	
	3:00	30 Mins	88'	4.0	
	3:30	30 Mins	88'	4.0	
	4:00	30 Mins	88'	4.0	
	4:30	30 Mins	88'	4.0	
	5:00	30 Mins	88'	4.0	
	5:30	30 Mins	88'	4.0	
	6:00 pm	30 Mins	88'	4.0	Test Completed
		30 Mins			Meter Reading: 65,936
		30 Mins			
		30 Mins			
		30 Mins			
		30 Mins			
		30 Mins			
		30 Mins			
		30 Mins			
		30 Mins			
09/10/21	6:50 am	72 Hrs. or	36.7'		48.8 hrs from completion of pump test

CALCULATION OF WELL RECOVERY

(Worksheet example taken from Permit Sonoma Number 9-2-28)

1. Determine the water level draw down by subtracting the initial static water level measurement from the stabilized pumping level. Record this result as the well draw down.

2. Next determine the water level recovery by subtracting the post test (within 72 hours) static water level from the stabilized dynamic pumping level. Record this result as the well recovery.

3. Next determine the percent recovery of the well. Divide the water level recovery by the water level draw down and multiply by 100. Record this result as the percent well recovery.

Example:

a.	Initial static water level:	(measured value)	48'
b.	Post test static water level*:	(measured value)	48'
b.1.	Time (hours) of measurement:	(within 72 hours)	8 hours
c.	Stabilized pumping level**:	(measured value)	88'
d.	Draw down:	(calculate by subtracting A from C)	40'
e.	Recovery:	(calculate by subtracting B from C)	40
f.	Percent recovery:	(calculate by dividing E by D and multiplying result by 100)	100%

Well percent recovery (F) must be 90% or greater within a 72 hour period.

* The static water level after 72 hours or less post pump test.

** Kleinfelder refers to this as the dynamic pumping level.

JERRY AND DON'S YAGER PUMP AND WELL SERVICE

Jerry & Don's Yager Pump and Well
1290 Bodega Ave - Petaluma, CA 94952
Ph: 707-762-1473 Fax: 707-769-9102
License: C-36, C-57 424778

WELL TEST REPORT

CUSTOMER INFORMATION

REPORT#:	1493
DATE OF TEST:	09/08/21
CUSTOMER NAME:	Bloomfield Farms
AGENT NAME:	Mike Agins
PROPERTY ADDRESS:	4707 Bloomfield Rd., Petaluma, CA 94952
MAILING ADDRESS:	
CONTACT:	Mike Agins
CONTACT PHONE:	(415) 515-1713
EMAIL:	
FAX:	

WELL DATA

LOCATION OF WELL:	38° 19' 50" N, 122°50' 42" N
TYPE OF WELL:	Drilled
WELL DEPTH:	296'
CASING SIZE & TYPE:	5" Steel
SANITARY WELL SEAL	Yes
PUMP HP & TYPE:	1 ½ hp - 10GS15
PUMP SETTING:	280'
PUMP STATIC PRESSURE:	140 psi
PRESSURE TANK MODEL:	N/A

WATER PRODUCTION OPERATING PRESSURE — RESULTS

WATER LEVEL AT START (STATIC LEVEL):	48'
WATER LEVEL DRAWDOWN:	40'
STABILIZED PUMPING LEVEL:	88'
FINAL PUMPING LEVEL:	88'
DURATION OF CONSTANT PUMPING LEVEL:	6 hours 10 minutes
FLOW RATE OPEN DISCHARGE:	22 GPM
TOTAL LENGTH OF TEST:	8 hours 10 minutes
STABILIZED FLOW RATE (YIELD):	4.0 GPM
TOTAL YIELD - GALLONS:	2,167-gallons

SYSTEM INSPECTION — CONDITION

BOOSTER PUMP MODEL:	3SVB1H5CO	
ELECTRICAL:		Good
BOOSTER TANK MODEL:	WX-201	
OPERATING PRESSURE SETTING:	130 psi	
BOOSTER PUMP CAPACITY:		
STORAGE TANK TYPE & SIZE:	(4) 5,000-gal Concrete	
WATER TREATMENT EQUIP:	N/A	

WATER SAMPLE TESTING

PARAMETER	DATE COLLECTED	RESULTS Raw / Treated		RECOMMENDED LEVELS
HARDNESS	N/A			Less than 3 G.P.G.
PH	N/A			7.0 to 8.5
IRON	N/A			Less than 0.3 P.P.M.
T.D.S.	N/A			Less than 500 P.P.M.
MANGANESE	N/A			Less than 0.05 P.P.M.
ARSENIC	N/A			<10ug/L–EPA Recommended Limit
NITRATE	N/A			<10mg/L-Reported as N –EPA Recommended Limit
VISUAL APPEARANCE	N/A			

BACTERIA

COLIFORM	N/A		<1.0 Safe to Consume
E. COLI	N/A		<1.0 Safe to Consume

COMMENTS

Test completed by Technician: Jacob Emschweiler
APPROVED BY: JIM MICKELSON

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