



COUNTY OF SONOMA
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403-2829
 (707) 565-1900 FAX (707) 565-1103

CERTIFICATION OF WATER YIELD IN WATER SCARCE AREAS

The Permit and Resource Management Department shall be notified 24 hours in advance of this test

Water Yield # _____

Well Permit # _____

I. Individual performing test: Cody Monday

II. Type of license/registration, number and expiration date: C61/D21 #903708 Exp 9/30/15

III. Location of well:
 Address: 3210 W. Dry Creek Rd., Healdsburg, CA 95448 A.P. #: 090-140-038

IV. Type and model of test pump: 3 HP Submersible

V. Test pump setting depth: 420 Feet

VI. Maximum reported yield for this pump type at this setting: 26.4 GPM

VII. Type of discharge measurement method: Meter/S.Watch/Bucket

VIII. Type and model of flow meter (or provide an accurate description of weir or orifice plate):

1" Sensus SR11

Geographic coordinates (Plane Coordinate Method or distance from fixed landmarks): N 38 deg 38.538' W 122 deg 55.296'

IX. Estimated elevation of well head: 397 Feet

X. Initial static water level (include measuring points such as top of casing, surface seal, access port): 106.5 Feet

Measured from top of casing. Top of casing is 18 inches above grade.

XI. Date & time of initial static water level measurement: 2013-10-30 6:52 a.m./p.m.

- A. Discharge Rate: 26.4 GPM
 B. Dynamic Water Level: 392.9 Feet
 C. Specific Capacity: 0.026
 D. Pump Test duration: 13 Hrs 45 Mins

XII. Immediately after the test take the following measurements:

- A. Dynamic water level: 392.9 Feet
 B. Final discharge rate: 7.5 GPM

XIII. Post - Test Measurement:

- A. Dynamic water level: 392.9 Feet
 B. Static water level: 106.5 Feet
 C. Percentage of recovery of final static level: 92.14%

Testing performed by (signature): Cody Monday

Date: 10/30/13 Company: Rays Well Testing Phone Number: 707-823-3191

Approved _____ Denied _____ Specialist _____ Date _____

Well Pump Test Data Recordation

Address: 3210 W. Dry Creek Rd., Healdsburg CA 95448

A.P. # 090-140-038

Date	Time	Interval	SWL	GPM	Comments	Color	
10/30/13	6:56 am	1 Min	106.5'	26.4		Orange	
10/30/13	6:57 am	1 Min	128'	25.4		.	
10/30/13	6:58 am	1 Min	136.1'	24.8		.	
10/30/13	6:59 am	1 Min	147'	24.2		.	
10/30/13	7:00 am	1 Min	159.8'	23.7		.	
10/30/13						.	
10/30/13	7:01 am	5 Mins	172.1'	23.4		.	
10/30/13	7:06 am	5 Mins	236.2'	22.5		.	
10/30/13	7:11 am	5 Mins	265.1'	21.4		.	
10/30/13	7:16 am	5 Mins	294.2'	19.2		.	
10/30/13	7:21 am	5 Mins	317.4'	16.9		Lt Brown	
10/30/13	7:26 am	5 Mins	333.5'	16.4		.	
10/30/13	7:31 am	5 Mins	346.3'	15.6		.	
10/30/13	7:36 am	5 Mins	357.9'	14.1		.	
10/30/13	7:41 am	5 Mins	365.8'	13.2		.	
10/30/13	7:46 am	5 Mins	371'	12.8		.	
10/30/13	7:51 am	5 Mins	375'	12.1		.	
10/30/13	7:56 am	5 Mins	378.1'	11.8		.	
						.	
10/30/13	8:01 am	20 Mins	380.6'	11.4		.	
10/30/13	8:21 am	20 Mins	388'	11.3		.	
10/30/13	8:41 am	20 Mins	392.9'	10.4	START 12HR TEST	Lt Brown	
10/30/13	9:01 am	30 Mins	392.9'	10.4		Lt Brown	
10/30/13	9:31 am	30 Mins	392.9'	9.9		Clear	
10/30/13	10:01 am	30 Mins	392.9'	9.5		.	
10/30/13	10:31 am	30 Mins	392.9'	9.1		.	
10/30/13	11:01 am	30 Mins	392.9'	8.8		.	
10/30/13	11:31 am	30 Mins	392.9'	8.8		.	
10/30/13	12:01 pm	30 Mins	392.9'	8.8		.	
10/30/13	12:31 pm	30 Mins	392.9'	8		.	
10/30/13	1:01 pm	30 Mins	392.9'	8		.	
10/30/13	1:31 pm	30 Mins	392.9'	8		.	
10/30/13	2:01 pm	30 Mins	392.9'	8		.	
10/30/13	2:31 pm	30 Mins	392.9'	8		.	
10/30/13	3:01 pm	30 Mins	392.9'	8		.	
10/30/13	3:31 pm	30 Mins	392.9'	8		.	
10/30/13	4:01 pm	30 Mins	392.9'	8		.	
10/30/13	4:31 pm	30 Mins	392.9'	7.5		.	
10/30/13	5:01 pm	30 Mins	392.9'	7.5		.	
10/30/13	5:31 pm	30 Mins	392.9'	7.5		.	
10/30/13	6:01 pm	30 Mins	392.9'	7.5		.	
10/30/13	6:31 pm	30 Mins	392.9'	7.5		.	
10/30/13	8:41 pm	130 Mins	392.9'	7.5	End 12 Hour Test	Clear	
10/31/13	10:00 am	72 Hrs. or	129'	-	Recovery		

Calculation of Well Recovery

(Worksheet example taken from PRMD No. 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:	<u>106.5 Feet</u>	(measured value)
b. *Post test static water level:	<u>129 Feet</u>	(measured value)
b.1. Time (hours) of measurement:	<u>13Hrs 19Min</u>	(within 72 hours)
c. **Stabilized pumping level:	<u>392.9 Feet</u>	(measured value)
d. Draw down:	<u>286.4 Feet</u>	(calculate by subtracting A from C)
e. Recovery:	<u>263.9 Feet</u>	(calculate by subtracting B from C)
f. Percent recovery:	<u>92.14 %</u>	(calculate by dividing E by D and multiplying result by 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.

To see all the details that are visible on the screen, use the "Print" link next to the map.

Google

WELL PLOT MAP

3210 W. DRY CREEK RD, HEALDSBURG CA 95448 AP # 090-140-038

