Print Form

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 # __WEL20-0256__   WELL B   Well Permit # _____

I. Individual performing test: __Cody Monday_____

II. Type of license/registration, number and expiration date: __C61/D21 #903708 Exp 9/30/21_____

III. Location of well:
Address: __2455 Middle Two Rock Rd, Petaluma CA 94952__   A.P. #: __021-160-008_____

IV. Type and model of test pump: __1/2 HP 230V Submersible_____

V. Test pump setting depth: __130 Feet_____

VI. Maximum reported yield for this pump type at this setting: __12.7 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):
__5/8" Master Meter_____

Geographic coordinates (Plane Coordinate Method or distance from fixed landmarks): __N38 deg 13.704' W122 deg 42.455'__

IX. Estimated elevation of well head: __526 Feet_____

X. Initial static water level (include measuring points such as top of casing, surface seal, access port): __38.2 Feet_____
__Water level was measured from top of casing. Top of casing is 15.5 inches above grade._____

XI. Date & time of initial static water level measurement: __7__ __17__ __20__ __8:15__ a.m./p.m.

    A. Discharge Rate: __7.8 GPM_____
    B. Dynamic Water Level: __130 Feet_____
    C. Specific Capacity: __0.0272_____
    D. Pump Test duration: __12 Hours 15 Minutes_____

XII. Immediately after the test take the following measurements:

    A. Dynamic water level: __130 Feet_____
    B. Final discharge rate: __2.5 GPM_____

XIII. Post - Test Measurement:

    A. Dynamic water level: __130 Feet_____
    B. Static water level: __38.2 Feet_____
    C. Percentage of recovery of final static level: __97.49%_____

Testing performed by (signature): _____

Date: __7/17/20_____   Company: __Ray's Well Testing Service Inc__   Phone Number: __707 823 3191_____

Approved_____ Denied_____   Specialist_____   Date_____

F:\WLS-010 Certification of Water Yield in Water Scarce Areas.wpd

Well Pump Test Data Recordation

Address: 2455 Middle Two Rock Rd, Petaluma CA 94952   Well B   A.P.#021-160-008

Date	Time	Interval	SWL	GPM	Comments	Water Color	Sand
7/17/20	8:15 AM	1 Min	38.2 Feet	7.8		Yel TInt	No
7/17/20	8:16 AM	1 Min	47.5 Feet	7.6		'	'
7/17/20	8:17 AM	1 Min	55 Feet	7.6		'	'
7/17/20	8:18 AM	1 Min	62.1 Feet	7.4		'	'
7/17/20	8:19 AM	1 Min	68.1 Feet	7.1		'	'
7/17/20	8:20 AM	5 Mins	72 Feet	12.7		'	'
7/17/20	8:25 AM	5 Mins	108 Feet	11.4		'	'
7/17/20	8:30 AM	5 Mins	130 Feet	11.1	Start 12 Hour Test	'	'
7/17/20	8:35 AM	5 Mins	130 Feet	3.2		'	'
7/17/20	8:40 AM	5 Mins	130 Feet	3.2		Clear	'
7/17/20	8:45 AM	5 Mins	130 Feet	3.2		'	'
7/17/20	8:50 AM	5 Mins	130 Feet	3.1		'	'
7/17/20	8:55 AM	5 Mins	130 Feet	3		'	'
7/17/20	9:00 AM	5 Mins	130 Feet	3		'	'
7/17/20	9:05 AM	5 Mins	130 Feet	3		'	'
7/17/20	9:10 AM	5 Mins	130 Feet	2.9		'	'
7/17/20	9:15 AM	5 Mins	130 Feet	2.9		'	'
7/17/20	9:20 AM	20 Mins	130 Feet	2.8		'	'
7/17/20	9:40 AM	20 Mins	130 Feet	2.8		'	'
7/17/20	10:00 AM	20 Mins	130 Feet	2.8		'	'
7/17/20	10:20 AM	30 Mins	130 Feet	2.8		'	'
7/17/20	10:50 AM	30 Mins	130 Feet	2.8		'	'
7/17/20	11:20 AM	30 Mins	130 Feet	2.5		'	'
7/17/20	11:50 AM	30 Mins	130 Feet	2.5		'	'
7/17/20	12:20 PM	30 Mins	130 Feet	2.5	Specific Capacity	'	'
7/17/20	12:50 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	1:20 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	1:50 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	2:20 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	2:50 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	3:20 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	3:50 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	4:20 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	4:50 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	5:20 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	5:50 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	6:20 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	6:50 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	7:20 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	7:50 PM	30 Mins	130 Feet	2.5		'	'
7/17/20	8:30 PM	40 Mins	130 Feet	2.5	End 12 Hour Test	'	'
7/20/20	3:00 PM	66 Hrs 30 Mins	40.5 Feet	-	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:	38.2 Feet	(measured value)
b.	*Post test static water level:	40.5 Feet	(measured value)
b.1.	Time (hours) of measurement:	66Hrs 30Min	(within 72 hours)
c.	**Stabilized pumping level:	130 Feet	(measured value)
d.	Draw down:	91.8 Feet	(calculate by subtracting A from C)
e.	Recovery:	89.5 Feet	(calculate by subtracting B from C)
f.	Percent recovery:	97.49%	(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.

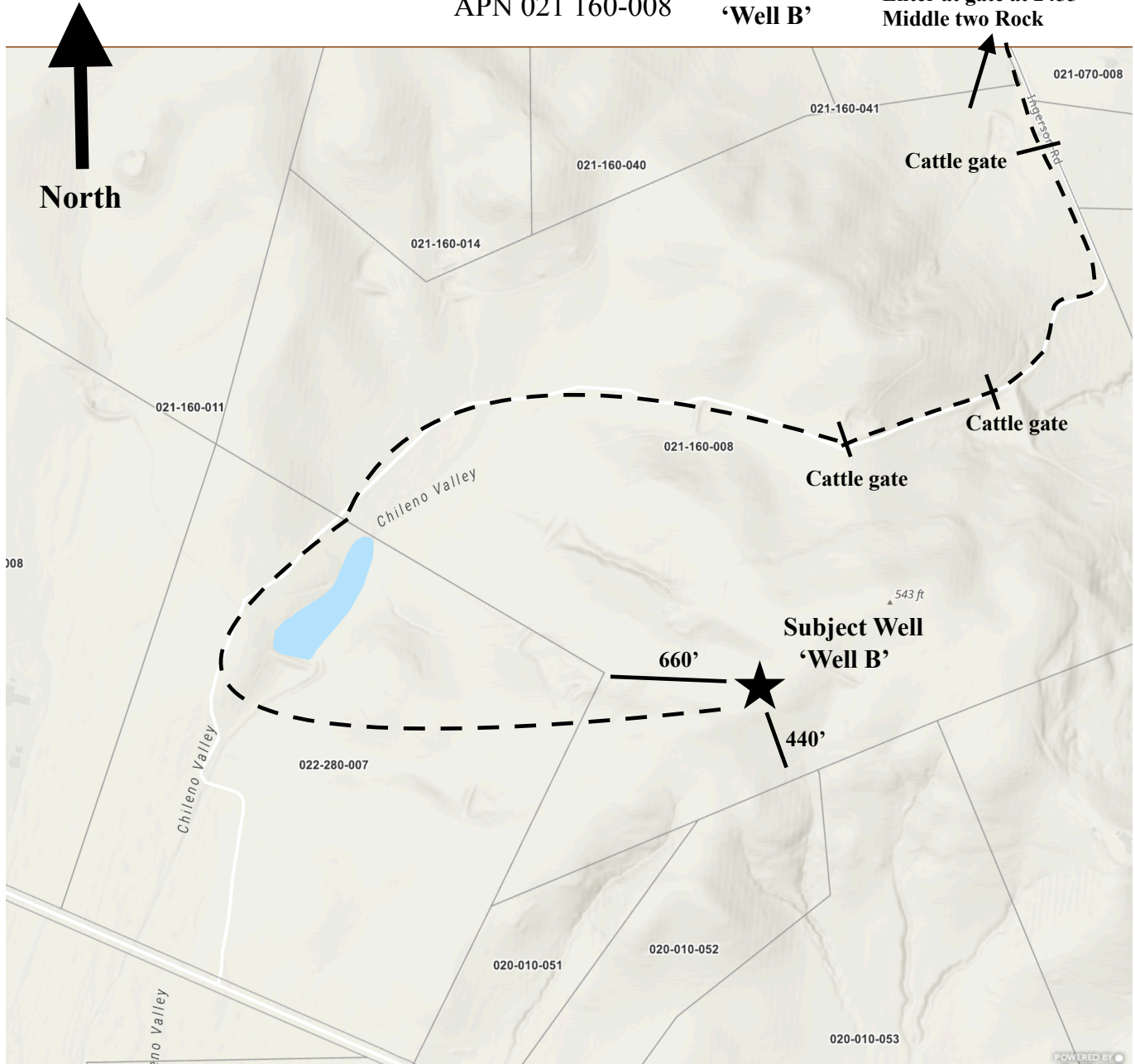** Kleinfelder refers to this as the dynamic pumping level.

Well Location Plot Map
2455 Middle Two Rock Rd, Petaluma Ca
APN 021 160-008

'Well B'

Enter at gate at 2455 Middle two Rock

North

021-070-008

021-160-041

021-160-040

Cattle gate

Ingerso Rd

021-160-014

021-160-011

Cattle gate

021-160-008

Chileno Valley

Cattle gate

008

543 ft

Subject Well 'Well B'

660'

Chileno Valley

440'

022-280-007

Chileno Valley

020-010-052

020-010-051

Chileno Valley

020-010-053

POWERED BY

COUNTY OF SONOMA
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
2550 Ventura Avenue, Santa Rosa, CA 95403-2829
(707) 565-1900   FAX (707) 565-1103

permit
SONOMA

Receipt for: WEL20-0256

Record Information

Record Number	Record Name	Site Address	APN
WEL20-0256	Well Study	2455 Middle Two Rock Rd [PET]	021-160-008

Payment Information

Receipt #	Date	Cashier	Method	Comment	Transaction Amount
563538	07/16/2020	Online	Credit Card		$331.00

Payor
Alexandria Shuford

Total Amount: $331.00

Fee Information

Description	Fee Item	Invoice#	Amount
Technology Enhancement - Type III	0140-015	387021	$49.00
Well Yield Report	0396-000	387021	$282.00
		Total Fee Amount:	$331.00