

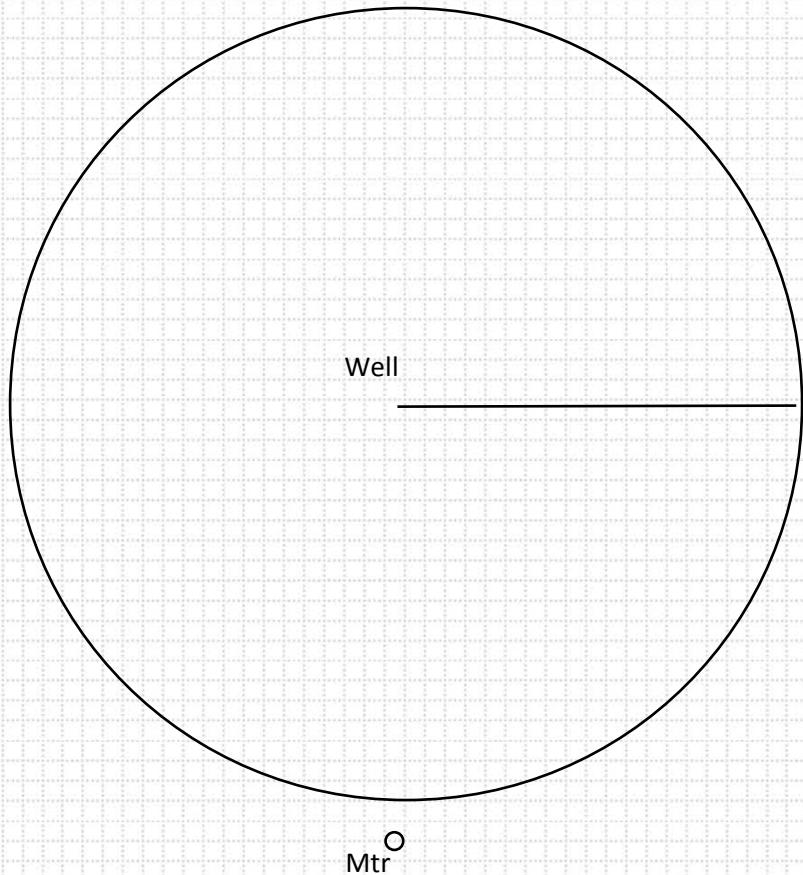
Form 3.1 05/01/2010	S. Platte River – Division 1 970-352-8712 Fax 970-392-1816 810 9 th Street, 2 nd Floor, Greeley, CO 80631 Republican River – Division 1 303-866-3581 Fax 303-866-3589 P.O. Box 450, Wray, CO 80758 Arkansas River – Division 2 719-542-3368 Fax 719-544-0800 310 E. Abriendo, Suite B, Pueblo, CO 81004 Rio Grande River – Division 3 719-589-6683 Fax 719-589-6685 P.O. Box 269, 301 Murphy Drive, Alamosa, CO 81101 Designated Basins – Division 8 303-866-3581 Fax 303-866-2223 1313 Sherman St. Rm. 818, Denver, CO 80237			For Office Use Only smc DWR REC'D 6-29-2017 6505452 - DLK <input type="checkbox"/> Passed <input type="checkbox"/> Failed <input type="checkbox"/> Variance Approved Date of variance _____		
NOTICE OF TOTALIZING FLOW METER RE-VERIFICATION, INSTALLATION OR REPLACEMENT						
Check appropriate box						
<input type="checkbox"/> To be filed in Compliance with Rule 16.5 of the Rules Governing the Measurement of Tributary Ground Water Diversions in the Republican River Basin (Complete pages 1-6)						
<input type="checkbox"/> To be filed in Compliance with Rules 3.1 of the Amended Rules Governing the Measurement of Tributary Ground Water Diversions in the Arkansas River Basin (Complete pages 1-5)						
<input type="checkbox"/> To be filed in Compliance with Rule 3.1 of the Rules Governing the Measurement of Tributary Ground Water Diversions in the Rio Grande River Basin (Complete pages 1-5)						
<input checked="" type="checkbox"/> To be filed in Compliance with the Ground Water Commission Rules Governing Designated Basins (Complete pages 1-5)						
<input type="checkbox"/> South Platte River Basin (Complete pages 1-5)						
Reason for meter verification (Check all that apply):						
<input checked="" type="checkbox"/>	Re-Verify Previously Verified TFM		The following MUST be provided for new & replaced meters			
<input type="checkbox"/>	New TFM (No previous meter)		Date New TFM installed:			
<input type="checkbox"/>	Replacing Previous TFM (also complete area at right)		Date Previous TFM removed:			
<input type="checkbox"/>	Previous TFM Serial No.:		Previous TFM Reading (Estimate required if not readable):			
<input type="checkbox"/>	Change in Measurement Method from:	Hour Meter <input type="checkbox"/>	Slave Meter <input type="checkbox"/>	Power Co Meter <input type="checkbox"/>	Previous Meter SN	
<input type="checkbox"/>	Register seal replaced due to:	New Seal No.	Old Seal No.	TFM Reading	K-Factor (Test req'd. if changed)	
<input type="checkbox"/>	(Sensor) (meter) seal replaced due to:	New Seal No.	Old Seal No.	TFM Reading		
Contact Information:						
Well Owner			User (if not same as well owner)			
Name Dennis Collette			Name Dennis Collette			
Mailing Address 3693 CR Q			Mailing Address 3693 CR Q			
City Kirk		State CO	Zip 80824	City Kirk	State CO	Zip 80824
Phone (970) 362-4586		Email		Phone (970) 362-4586	Email	
Well Information and Location (Provide Permit No. and/or Case or Decree No. if no WDID exists or is not known)						
WDID	Permit No.	Case or Decree No.	Location (1/4, 1/4, Sec., T., R., PM)		GPS Coord. (UTM, meters, NAD 83) Northing Easting Zone (12/13)	
6505452	12517 F		NW, SF, 17, 5 S, 46 W, 6PM			
Power Supply						
<input checked="" type="checkbox"/> Electric <input type="checkbox"/> Artesian <input type="checkbox"/> Solar <input type="checkbox"/> Windmill <input type="checkbox"/> Fossil Fuel <input type="checkbox"/> Other (describe): _____						
Provide the following for all wells with electric power:						
Power Company Name YWEA		Power Company Service No. 17313479		Meter Manufacturer Elster	Manufacturer's Serial No. 17313479	
Power Company Meter Reading on Date of Test (including all rotating and leading zeroes): 01803			Multiplier 100		Number of Rotating Digits: 5	
Uses on power company meter: Does the same Power Company Meter serve other devices, including other wells/pumps? If yes, describe system. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						

Installed TFM Information					
Manufacturer	McCrometer	Model No.	MO308	Meter GPS Coordinates	
	Serial No.	Reading on Test Date		Zone (12 or 13):	
Sensor/Meter	GP13-0267	766.763		Northing:	
Register				Easting:	
Provide sensor serial no. ONLY if meter has a remote readout. Provide both sensor and meter serial no. ONLY if different					
Meter type	Propeller	Meter size	8.625	Multiplier	0.001
No. of recording digits 6					
Meter Units					
<input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Acre Feet <input type="checkbox"/> Cubic Feet <input type="checkbox"/> Other (describe)					
Meter Orientation		Diameters of straight pipe		Diameter of discharge pipe	
<input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Horizontal	Upstream	Downstream	ID	OD
		6	9	8.36	8.625
Is the meter installed to manufacturer's specifications? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:					
Test Meter Information					
Test Meter Manufacturer: Fuji		Test Meter Serial Number: A2P6793T		Date of Last Calibration: 8/14/2015	
Meter Orientation	Pipe Wall Thickness	Diameters of straight pipe		Diameter of discharge pipe	
<input type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Vertical	0.135	Upstream	Downstream	ID	OD
		7	7	7.731	8
Verification of Installed Meter (If more than one meter tested for same discharge, show all tests. Use second sheet if necessary):					
Date of Test: 6-21-17	Time of Test (Begin): 10:45	Length of time pump has been running prior to Tester's arrival:		5:00 (HH:MM)	
Test Meter Calculations (Show All Work)			Installed Meter Calculations (show all work):		
Collins Meter: GPM factor _____ Stop Clamp Settings: _____			Flow Meter Reading: 0.028 acre feet acre feet x 325851 gallons: 9123.83 gallons number of seconds for test: 928.00 seconds gallons divided by seconds: 9.83 gal / sec gallons per minute: 589.90		
			Existing K-factor _____ Adjusted K-factor _____ Flow rate with Collins tube removed:		
(Show Q to nearest 0.00 GPM) Avg QT: 569.70			(Show Q to nearest 0.00 GPM) Avg QI: 589.90		
Correction Factor = $\frac{\text{Avg QT}}{\text{Avg QI}} = \frac{569.70}{589.90} = 0.966$			Calibration Coefficient must be shown to the nearest 0.000.		

If Calibration Coefficient is:	Div. 2 and Republican River Calibration Coefficient Policies	Div. 3 Calibration Coefficient Policies
0.950 to 1.050	The installed TFM is in accurate working condition. <i>No Request for Variance is required.</i>	
0.920 to 0.949 OR 1.051 to 1.080	<p>Test will be valid for a maximum of four years.</p> <p>The Variance Request to Use Calibration Coefficient portion of this Form must be completed and signed by the Owner/User.</p>	<p>May grant a request for a variance to allow the use of a Calibration Coefficient.</p> <p>Test will be valid for one year from the date of the test. A variance will be allowed for a maximum of three years, after which the TFM must be repaired or replaced AND a new Test conducted. That Test must confirm an accuracy within $\pm 5.0\%$.</p> <p>The Variance Request to Use Calibration Coefficient for TFM portion of this Form must be completed and signed by the Owner/User.</p>
0.900 to 0.919 OR 1.081 to 1.100	<p>Test will be valid for one year only. No later than one year from the date of this Test the installed TFM must be repaired or replaced AND a new test conducted. That test must confirm an accuracy of within $\pm 5.0\%$.</p> <p>The Variance Request to Use Calibration Coefficient portion of this Form must be completed and signed by the Owner/User.</p>	<p>Test will be rejected and the installed TFM must be repaired or replaced AND a new Test conducted. The second Test must confirm an accuracy of within $\pm 5.0\%$.</p> <p>If TFM fails test and is re-calibrated (k-factor modified), show failed Test, indicate below k-factor before and after, AND show new test on additional duplicate page (include failed and passed test page 3).</p>
<0.900 OR >1.100	Test will be rejected and the installed TFM must be repaired or replaced AND a new Test conducted.	
Uses through this totalizing flow meter:		
Does well have multiple discharges measured through TFM?		If yes, check all that apply:
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Open <input type="checkbox"/> Pressure <input type="checkbox"/> Artesian <input type="checkbox"/> Other
Use this space to describe all discharges _____		
<hr/> <hr/> <hr/>		
Meter Testing:		
How was the well/meter tested with test equipment (open discharge, pressure, or more than one way)?		
Show information in detailed sketch on next page or as an attachment _____		
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		

Detailed Sketch:

Show total system from pump to discharge, other pumps in the same well, and electrical system including other devices on the same meter. Show where test meter and pressure gauge were placed and how system was modified to perform test. Show measurements. In addition to sketch, an attached photograph is recommended.



Detailed description of system under normal operating conditions. (Example: One well pumps to two sprinklers. Each sprinkler has an end gun that operates when the sprinkler is operating.) Include number of irrigated acres.

1 well for 1 sprinkler

Tester Verification	
<p>I, the undersigned, state that I am currently a person approved by the State Engineer to conduct well tests pursuant to the Rules Governing the Measurement of Ground Water Diversions as indicated on page 1 of this form. I have determined the installed Totalizing Flow Meter to either be in accurate working condition as defined by the Rules indicated on page 1 of this form OR have advised the Owner/User to complete the Variance Request below of this form.</p> <p>I understand that "accurate working condition" is determined when the indicated flow through the Installed METER is within plus or minus 5% of an independent field measurement made using Calibrated Test Equipment. I understand that falsifying the accuracy and/or condition of a Totalizing Flow Meter can subject me to a fine of up to \$500.00.</p>	
Signature of Tester:	Kyle Sprouse
	Date 6-21-17
Tester Name, Company, Phone, Email	
Name:	Kyle Sprouse
Company Name:	Y-W Well Testing LLC
Phone:	(970) 630-3662
Email:	ywwelltesting@hotmail.com
Variance Request to Allow a Calibration Coefficient to be used when calculating use with the installed TFM:	
<p>I request a Variance to allow the use of the Calibration Coefficient. I understand that a Variance WILL NOT be issued to allow a Calibration Coefficient for a Totalizing Flow Meter (TFM) if the inaccuracy is due to the TFM or appurtenances being intentionally damaged or modified by the owner and/or user of the well/meter.</p> <p>I understand that the Calibration Coefficient as computed by the above Qualified Well Tester will be verified by or revised by the Division of Water Resources and that final Calibration Coefficient will be applied to ALL use records until the TFM is repaired/replaced and/or a new test conducted for this Well.</p>	
<p>I understand and agree to the required conditions of the variance as indicated below:</p>	
Division 2 or Republican River Basin (Check only one)	
<input type="checkbox"/>	If Calibration Coefficient is between 0.920 to 0.949 or is between 1.051 to 1.080, the Test will be valid for no more than four years .
<input type="checkbox"/>	If Calibration Coefficient is between 0.900 to 0.919 or is between 1.081 to 1.100, the Test will be valid one year . No later than one year from the date of this Test, a new Measurement Test must be conducted and the accuracy of the new Test must be within $\pm 5.0\%$. Further, I acknowledge that repair and/or replacement of this Meter and/or portions of the Discharge System is required within that one year AND I agree to make the necessary changes within that time.
Division 3	
<input type="checkbox"/>	If Calibration Coefficient is between 0.920 to 0.949 or 1.051 to 1.080, and Division 3 approves this Variance Request, the Test will be valid for no more than one year . A new variance including new correction factor computed by a Qualified Well Tester shall be required each year thereafter. A variance will only be allowed for TFM for a maximum of three years. After three years the TFM must be repaired or replaced and working within the required $\pm 5\%$.
<p>For Electrically Powered Wells/Pumps, I agree to the release of information pertaining to my Electric Service and Use, including Current Transformer Factor, Voltage/Potential Transformer Factor and Electric Meter Readings, to the Colorado Division of Water Resources by my electric supplier for the purposes of determining or verifying Water Use from the Well/Pump.</p>	
<p>The above information is true to the best of my knowledge. I understand that falsifying the accuracy and/or condition of a Totalizing Flow Meter can subject me to a fine of up to \$500.00. If any Variance is requested on my behalf to apply a Calibration Coefficient to my TFM, I agree to such Variance.</p>	
<p>I am the <input checked="" type="checkbox"/> Well Owner OR <input type="checkbox"/> Well User</p>	
Signature of Well Owner/User	Kyle Sprouse
Date	6-21-17
Print Name of Well Owner/User	Dennis Collette

For Republican River Basin Only: complete this section to determine Power Consumption Coefficient (PCC) Rating to be used as a Back-Up Measurement Method.					
Power Supply And Use					
Power Company Name YWEA			Power Company Customer Account No. 17313479		
Electric Meter Manufacturer Elster			Manufacturer's Serial No. 17313479		
Power company meter reading on day of test Include all rotating digits and leading digits 01803			Multiplier 100	Number of rotating digits 5	
Voltage/potential transformer factor: <input type="checkbox"/> None (1.0) <input checked="" type="checkbox"/> 2.5:1 (2.5) <input type="checkbox"/> 2.4:1 (2.4) <input type="checkbox"/> Other (specify) 2.5					
Current transformer factor: <input type="checkbox"/> None (1.0) <input type="checkbox"/> 200:5 (40) <input type="checkbox"/> 400:5 (80) <input type="checkbox"/> 800:5 (160) <input checked="" type="checkbox"/> Other (specify) 40					
Kh factor: <u>1.8</u> shown on meter			Pkh = Kh x Pt x Ct = <u>180.00</u>		
Does the same Power Company Meter serve other devices, including other wells/pumps?					
<input type="checkbox"/> Yes If yes, describe: _____			If yes, were all devices operating during test? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<input checked="" type="checkbox"/> No					
Static Level	Pumping Level	Total Dynamic Head	Elev. at Site	Operating Pressure 38	Yield
Determination Of Power Demand (Minimum Of Three Tests)					
No. Of Disk Revolutions		Second (sec)	Rate (rev/sec)	Power Demand (P) = Average rate x 3.6 x Pkh	
1.				$P = \frac{\text{Rate}}{\text{Second}} \times 3.6 \times Pkh$ to nearest 0.000 KW	
2.					
3.					
4.					
5.				$\text{Calculation Of Power Consumption Coefficient (Pcc)} = \frac{5433 \times P}{Q}$	
6.					
Average Rate			Methods of Calculating Power Consumption Coefficient are Specified In U.S.G.S. Water Resources Investigation Report (89-4107)		
Discharge methods (mark all that apply) <input type="checkbox"/> Open discharge/low pressure pipeline <input checked="" type="checkbox"/> Sprinkler <input type="checkbox"/> Drip tape <input type="checkbox"/> Pressurized system (including household, stock and/or humidification uses) <input type="checkbox"/> Other (describe)				Describe all discharges and provide <u>detailed sketch</u> on Page 5 or as attachment	
End gun	On <input type="checkbox"/>	Off <input type="checkbox"/>	No End Gun <input type="checkbox"/>	If use of end gun is part of normal operating conditions, test must be conducted with the end gun on	
Sprinkler	<input checked="" type="checkbox"/> On	<input type="checkbox"/> Off	If Off, explain why:		
Percent speed of sprinkler running: <u>26 %</u> Sprinkler operating at normal speed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain why:					
Description of irrigated terrain (i.e. flat, rolling hills, etc.)				Does the system have working pressure regulators installed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pump Information					
Pump type <input checked="" type="checkbox"/> Turbine <input type="checkbox"/> Centrifugal <input type="checkbox"/> Submersible <input type="checkbox"/> Other (specify)			Motor Horsepower 100	Discharge pipe at test site Pipe ID <u>8.36</u> inches Pipe OD <u>8.63</u> inches Wall thickness <u>0.134</u> inches	





Y-W Well Testing LLC

121 S. Main Yuma, CO 80759
Telephone - 970-630-0612
Fax - 970-848-5358

January 30, 2012

Dear Mr. Dennis Collette,

Thank you for choosing Y-W Well Testing to provide your well testing and/or reporting needs.

In order to properly expedite the test results to the correct State of Colorado office, we would like your permission to sign off on these reports. Therefore, we need you to sign on the portion below and return this letter and payment in the enclosed self-addressed envelope provided. A signed copy of the final complete well test or report will be sent to you as we submit them to the state.

We hope this method will streamline the well approval process at the state level. Please feel free to contact me at (970) 630-0612 with any questions or concerns.

Sincerely,

John Lovell
Manager

Staff of Y-W Well Testing LLC, has the authorization to sign and approve well tests and/or reports for wells owned by Dennis Collette.



Dennis Collette, Well Owner or User