

IDAHO DEPARTMENT OF WATER RESOURCES
Water Measurement Program

WATER MEASURING DEVICE CERTIFICATION

(Revised 7/2002)

District WD 130Diversion Name EAST well

Inventory Date _____

Inventory Examiner _____

PCC o.k.? ☐ Yes ☐ NoTest Date 2-24-04Person performing test C. KnowlesExam complete? ☒ Yes ☐ NoName: Clara CrossenWater Right No.: X36-2148B; X36-7713BLegal Description: T 08S R 15E Sec. 30 1/4 SW 1/4 NE 1/4Site Tag No.: A0004857Diversion Name: EAST well

Current Owner

Name Clara CrossenPhone 324-2277Address 2346 E 3600 S

Cell _____

City Jerome St ID Zip 83338

E-mail _____

Operator (if leased or operated by person other than owner)

Name Loree - Jim CrossenPhone 539-9388-308-8487

Address _____

Cell _____

City _____ St _____ Zip _____

E-mail _____

SECTION 1 - Well Site Identification

Global Positioning System Data:

Data Collection Filename _____ Offset _____

IDWR Site Tag Identification No. _____

Site Tag Location description: _____

PLS/USGS LOCATOR _____

For Department/District Use Only

Received by _____

Date _____

Reviewed by _____

Date _____

Data Entry By CRKDate 2-24-04

SECTION II – Installed Meter Information

METER AND MOUNTING PIPE INFORMATION			
Motor HP	5 HP	Volume units	Acre-Feet <u>Gallons</u> Other (specify) _____
Meter Install Date		Volume multiplier	1.0
Manufacturer	Mcrometer	Installation location	☐ Excel ☒ Fair ☐ Good ☐ Poor
Meter Type	Propeller	Pipe material	CS
Meter Model		Outside diameter	2.90
Serial Number	97-6584-2	Wall thickness	.180
Size (nominal)	2 1/2	Inside diameter	
Measure Flow Rate?	☒ Yes ☐ No	Amount of straight pipe upstream from meter	<u>36</u> " Inches <u>18</u> Pipe Lengths
Measurement Units	☐ CFS ☒ GPM Other (specify) _____	Amount of straight pipe downstream from meter	<u>6</u> " Inches <u>3</u> Pipe Lengths
Flow Rate Multiplier	1	Standard Meter Type	☒ Sonic ☐ Pyg ☐ Collins ☐ Hall ☐ Anub ☐ Dye/chem ☐ Other _____
Measure Cumulative Volume?	☒ Yes ☐ No	Standard Meter Confidence	☒ Excellent 2% ☐ Good 5% ☐ Fair 10% ☐ Poor > 10%

Multiple Flowmeters

Are multiple flowmeters used to measure diversions from this well? ☐ Yes ☐ No

If yes, how many? _____

(Attach separate form for each meter checked and/or calibrated.)

Multiple Wells

If this meter measures diversions from multiple wells, list names and locations of other wells:

SECTION III – Certification for Calibration of a Water Measurement Meter

Measurement No. 1 (M_1) is the measured rate of flow from the permanently installed flow meter.

Measurement No. 2 (M_2) is the measured rate of flow from the measuring device being used to check the flow for the calibration. This method or device must be accurate to within $\pm 5\%$ error. Describe below the method and equipment used to perform this measurement.

$$\text{Percent Difference} = (M_1 - M_2) \div M_2 \times 100 = \pm \% \quad (\text{Acceptable is within } \pm 10\%) \quad (\text{equation 1})$$

$$\text{Calibration Multiplier} = M_2 \div M_1 \quad (\text{equation 2})$$

Is flowmeter installed according to manufacturer's specifications? ☐ Yes ☐ No ☐ Unsure

Describe any apparent problems with installation or operation _____

Flowmeter accuracy prior to any adjustments: _____ Totalizer reading _____

Flowmeter accuracy after final adjustment: _____ Totalizer reading _____

Flowmeter calibration multiplier: _____

FLOWMETER ACCURACY CALIBRATION TABLE							
Installed meter (totalizer reading)	Time	Total Gallons	Average Flow Rate GPM (M_1)	Standard total gallons	Average Flow Rate GPM (M_2)	% diff. ($\pm$)	Comments and adjustments
299190	START	560	55.45	551	55.1	1.63%	
299246	10.1						

Notes – Comments – Calculations: _____

WATER LEVEL DATA

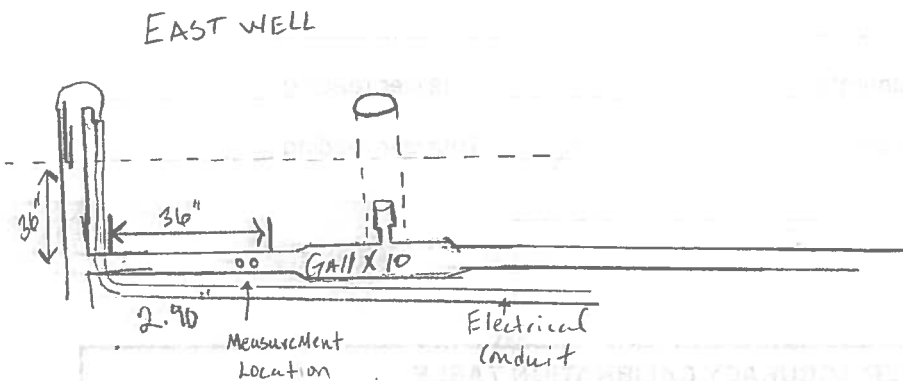
Does the well have access to measure water levels? ☐ Yes ☐ No (check one)

Is this well part of USGS, IDWR, or another network of water level monitoring wells? ☐ Yes ☐ No (check one)

Static Water Level _____ ft
Date _____

Pumping Water Level _____ ft (at condition _____)
Date _____

Sketch and/or photograph of installation:



HAD to Dig line up to get measurement

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature

Carl R. Kuhl

Date

2-24-04

(person performing measurements)

5C Dairy Clara Cnossen 2004 East Well

START :02-24 12:01

END :02-24 12:11

INTERVAL:00:01:00

2/24/2004 12:01

+3.420E+0 ft/s

+5.530E+1 gal/m

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:02

+3.350E+0 ft/s

+5.417E+1 gal/m

+TOTAL 0000053 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:03

+3.329E+0 ft/s

+5.384E+1 gal/m

+TOTAL 0000107 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:04

+3.762E+0 ft/s

+6.083E+1 gal/m

+TOTAL 0000165 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:05

+3.542E+0 ft/s

+5.727E+1 gal/m

+TOTAL 0000225 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:06

+3.462E+0 ft/s

+5.598E+1 gal/m

+TOTAL 0000282 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:07

+3.357E+0 ft/s

+5.429E+1 gal/m

+TOTAL 0000337 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:08

+3.304E+0 ft/s

+5.342E+1 gal/m

+TOTAL 0000391 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:09

+3.254E+0 ft/s

+5.262E+1 gal/m

+TOTAL 0000444 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:10

+3.209E+0 ft/s

+5.190E+1 gal/m

+TOTAL 0000496 gal

-TOTAL 0000000 gal

NORMAL

2/24/2004 12:11

+3.324E+0 ft/s

+5.375E+1 gal/m

+TOTAL 0000550 gal

-TOTAL 0000000 gal

NORMAL

Standard Meter 55.1 GPM

Owners Meter 55.45 GPM

+.6% Higher than Standard

IDAHO DEPARTMENT OF WATER RESOURCES
Water Measurement Program**WATER MEASURING DEVICE CERTIFICATION**

(Revised 7/2002)

District WD 130Diversion Name West Well

Inventory Date _____

Inventory Examiner _____

PCC o.k.? ☐ Yes ☐ NoTest Date 2-27-04Person performing test C. KnowlesExam complete? ☒ Yes ☐ NoName: Clara Crossen DairyWater Right No.: X36-21488 ; X36-77133Legal Description: T 08S R 15E Sec. 30 1/4 SW 1/4 NE 1/4Site Tag No.: A0007658Diversion Name: West Well**Current Owner**

Name _____

Phone _____

Address _____

Cell _____

City _____ St _____ Zip _____

E-mail _____

Operator (if leased or operated by person other than owner)Name Lois Ann MaxnerPhone 308-8457

Address _____

Cell _____

City _____ St _____ Zip _____

E-mail _____

SECTION 1 – Well Site Identification**Global Positioning System Data:**

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IDWR Site Tag Identification No. _____

Site Tag Location description: _____

PLS/USGS LOCATOR _____

For Department/District Use Only

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Reviewed by _____

Date _____

Data Entry By CRKDate 2-27-04

SECTION II – Installed Meter Information

METER AND MOUNTING PIPE INFORMATION			
Motor HP		Volume units	Acre-Feet <u>Gallons</u> Other (specify) _____
Meter Install Date		Volume multiplier	<u>x 10</u>
Manufacturer	<u>McCrometer</u>	Installation location	☐ Excel ☒ Fair ☐ Good ☐ Poor
Meter Type	<u>Propeller</u>	Pipe material	<u>CS</u>
Meter Model		Outside diameter	<u>1.93</u>
Serial Number	<u>97 8383 2.5</u>	Wall thickness	<u>.127</u>
Size (nominal)	<u>2"</u>	Inside diameter	
Measure Flow Rate?	☒ Yes ☐ No	Amount of straight pipe upstream from meter	<u>12</u> Inches <u>6</u> Pipe Lengths
Measurement Units	☐ CFS ☒ GPM Other (specify) _____	Amount of straight pipe downstream from meter	<u>6</u> Inches <u>4</u> Pipe Lengths
Flow Rate Multiplier	<u>x 1</u>	Standard Meter Type	☒ Sonic ☐ Pyg ☐ Collins ☐ Hall ☐ Anub ☐ Dye/chem ☐ Other _____
Measure Cumulative Volume?	☒ Yes ☐ No	Standard Meter Confidence	☒ Excellent 2% ☐ Good 5% ☐ Fair 10% ☐ Poor > 10%

Multiple Flowmeters

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$$\text{Calibration Multiplier} = M_2 \div M_1 \quad (\text{equation 2})$$

Is flowmeter installed according to manufacturer's specifications? ☐ Yes ☐ No ☐ Unsure

Describe any apparent problems with installation or operation _____

Flowmeter accuracy prior to any adjustments: _____ Totalizer reading _____

Flowmeter accuracy after final adjustment: _____ Totalizer reading _____

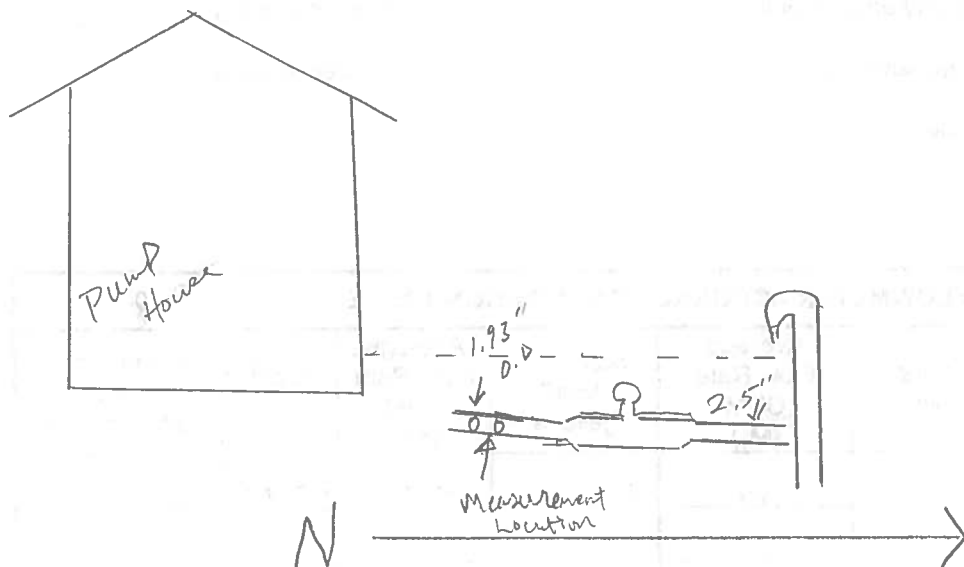
Flowmeter calibration multiplier: _____

Jim -
539-9388

FLOWMETER ACCURACY CALIBRATION TABLE							
Installed meter (totalizer reading)	Time	Total Gallons	Average Flow Rate GPM (M_1)	Standard total gallons	Average Flow Rate GPM (M_2)	% diff. ($\pm$)	Comments and adjustments
198789	START	570	56.44	543	54.3	+3.9%	
198846	10.10						

Notes – Comments – Calculations: _____

WATER LEVEL DATA	
Does the well have access to measure water levels? ☐ Yes ☐ No (check one)	
Is this well part of USGS, IDWR, or another network of water level monitoring wells? ☐ Yes ☐ No (check one)	
Static Water Level _____ ft Date _____	Pumping Water Level _____ ft (at condition _____) Date _____

Sketch and/or photograph of installation:

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature C. K. K. K. Date 2-27-04
(person performing measurements)

Clara Cnossen Dairy West Well 2004

START :02-27 16:35

END :02-27 16:45

INTERVAL:00:01:00

2/27/2004 16:35

+8.072E+0 ft/s

+5.550E+1 gal/m

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:36

+8.043E+0 ft/s

+5.531E+1 gal/m

+TOTAL 0000054 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:37

+7.942E+0 ft/s

+5.461E+1 gal/m

+TOTAL 0000109 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:38

+7.918E+0 ft/s

+5.444E+1 gal/m

+TOTAL 0000164 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:39

+7.854E+0 ft/s

+5.401E+1 gal/m

+TOTAL 0000218 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:40

+7.772E+0 ft/s

+5.344E+1 gal/m

+TOTAL 0000272 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:41

+7.813E+0 ft/s

+5.372E+1 gal/m

+TOTAL 0000325 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:42

+7.888E+0 ft/s

+5.424E+1 gal/m

+TOTAL 0000379 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:43

+7.855E+0 ft/s

+5.401E+1 gal/m

+TOTAL 0000433 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:44

+7.868E+0 ft/s

+5.410E+1 gal/m

+TOTAL 0000487 gal

-TOTAL 0000000 gal

NORMAL

2/27/2004 16:45

+7.873E+0 ft/s

+5.414E+1 gal/m

+TOTAL 0000541 gal

-TOTAL 0000000 gal

NORMAL

54.3 GPM on Standard Meter

56.44 GPM on Owners Meter

+3.9

