

IDAHO DEPARTMENT OF WATER RESOURCES
Water Measurement Program

WATER MEASURING DEVICE CERTIFICATION

(Revised 7/2002)

District B6A

Diversion Name _____

Inventory Date _____

Inventory Examiner _____

PCC o.k.? Yes No

Test Date 8-4-04

Person performing test C. Knowles

Exam complete? Yes No

Name: Idaho Fish & Game

Water Right No.: _____

Legal Description: T 07S R 13E Sec. 36 NW 1/4 SE 1/4 SW 1/4

Site Tag No.: A006357B

Diversion Name: Upper Truckee Large Pipe

Current Owner

Name _____ Phone _____

Address _____ Cell _____

City _____ St _____ Zip _____ E-mail _____

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

Name _____ Phone _____

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 _____ Date _____

SECTION II – Installed Meter Information

METER AND MOUNTING PIPE INFORMATION			
Motor HP	<i>5 rwh by</i>	Volume units	<u>Acre-Feet</u> Gallons Other (specify) _____
Meter Install Date		Volume multiplier	<i>X1</i>
Manufacturer	<i>Granland</i>	Installation location	<input checked="" type="checkbox"/> Excel <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Poor
Meter Type	<i>Impeller</i>	Pipe material	<i>CS</i>
Meter Model	<i>500B</i>	Outside diameter	<i>42.2</i>
Serial Number	<i>19376</i>	Wall thickness	<i>.19</i>
Size (nominal)	<i>42"</i>	Inside diameter	
Measure Flow Rate?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Amount of straight pipe upstream from meter	_____ Inches <i>10'</i> Pipe Lengths
Measurement Units	<input checked="" type="checkbox"/> CFS <input type="checkbox"/> GPM Other (specify) _____	Amount of straight pipe downstream from meter	_____ Inches <i>10'</i> Pipe Lengths
Flow Rate Multiplier	<i>X1</i>	Standard Meter Type	<input checked="" type="checkbox"/> Sonic <input type="checkbox"/> Pyg <input type="checkbox"/> Collins <input type="checkbox"/> Hall <input type="checkbox"/> Anub <input type="checkbox"/> Dye/chem <input type="checkbox"/> Other _____
Measure Cumulative Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standard Meter Confidence	<input checked="" type="checkbox"/> Excellent 2% <input type="checkbox"/> Good 5% <input type="checkbox"/> Fair 10% <input type="checkbox"/> 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 (M₁) is the measured rate of flow from the permanently installed flow meter.

Measurement No. 2 (M₂) 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 ± 5% error. Describe below the method and equipment used to perform this measurement.

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

Calibration Multiplier = $M_2 \div M_1$ (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. (±)	Comments and adjustments
214711	START	325,850	16,494.5	16,390	16,390	+1.64%	
214712	19.75 min						

Notes – Comments – Calculations: Used optima fixed numbers on the day of measurement & the day after flows should be the same.

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 _____ Date _____
 (person performing measurements)

UDFG
40003578
UPPER
TWOLET
LARGE PIPE

OUTER DIAMETER
42.2000 IN

PIPE MATERIAL
? CS,SS

WALL THICKNESS
0.1902 IN

SENSOR MOUNTING
? Z

SPACING
17.370 IN Z

12:45+ 1.566E 4GPM 00R
+ 3.658E 0FPS 00R
+00000 *100 G 00R
-00000 *100 G 00R

12:46+ 1.665E 4GPM 00R
+ 3.891E 0FPS 00R
+00159 *100 G 00R
-00000 *100 G 00R

12:47+ 1.657E 4GPM 00R
+ 3.871E 0FPS 00R
+00325 *100 G 00R
-00000 *100 G 00R

12:48+ 1.707E 4GPM 00R
+ 3.989E 0FPS 00R
+00483 *100 G 00R
-00000 *100 G 00R

12:49+ 1.666E 4GPM 00R
+ 3.894E 0FPS 00R
+00653 *100 G 00R
-00000 *100 G 00R

12:50+ 1.678E 4GPM 00R
+ 3.920E 0FPS 00R
+00816 *100 G 00R
-00000 *100 G 00R

12:51+ 1.613E 4GPM 00R
+ 3.769E 0FPS 00R
+00981 *100 G 00R
-00000 *100 G 00R

12:52+ 1.665E 4GPM 00R
+ 3.891E 0FPS 00R
+01143 *100 G 00R
-00000 *100 G 00R

12:53+ 1.697E 4GPM 00R
+ 3.966E 0FPS 00R
+01307 *100 G 00R
-00000 *100 G 00R

12:54+ 1.734E 4GPM 00R
+ 4.051E 0FPS 00R
+01471 *100 G 00R
-00000 *100 G 00R

12:55+ 1.662E 4GPM 00R
+ 3.884E 0FPS 00R
+01639 *100 G 00R
-00000 *100 G 00R

12:56+ 1.650E 4GPM 00R
+ 3.854E 0FPS 00R
+01801 *100 G 00R
-00000 *100 G 00R

12:57+ 1.631E 4GPM 00R
+ 3.812E 0FPS 00R
+01967 *100 G 00R

16,390
GPM