WMIS # 410043

WMP2 7-23-02

IDAHO DEPARTMENT OF WATER RESOURCES
Water Measurement Program

WATER MEASURING DEVICE CERTIFICATION

(Revised 7/2002)

District Water District 36A

Diversion Name Florence Livestock Spring/Billingsley Creek SP

Inventory Date 7/16/2004
Inventory Examiner J. Berkey
PCC o.k.? NA ☐ Yes ☐ No

Test Date 7/16/2004
Person performing test J. Berkey
Exam complete? ☐ Yes ☐ No

Name:
Water Right No.:
Legal Description: T____ R____ Sec.____ ____ ¼ ____ ¼ ____ ¼
Site Tag No.:
Diversion Name:

Current Owner

Name Billingsley Creek SP
Address _____
City _____ St ____ Zip _____

Phone _____
Cell _____
E-mail _____

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

Name Frank Erwin
Address _____
City _____ St ____ Zip _____

Phone _____
Cell _____
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	gravity, pump not used	Volume units	Acre-Feet Gallons Other (specify) _____
Meter Install Date		Volume multiplier	
Manufacturer	Peek Flow Research	Installation location	☐ Excel ☐ Fair ☐ Good ☐ Poor
Meter ~~Type~~ Model	FL9901	Pipe material	carbon steel
Meter ~~Model~~ Type		Outside diameter	16.0 in
Serial Number		Wall thickness	0.205 ft
Size (nominal)		Inside diameter	
Measure Flow Rate?	☒ Yes ☐ No	Amount of straight pipe upstream from meter	~1500 ft ~~Inches~~ _____ Pipe Lengths
Measurement Units	☐ CFS ☒ GPM Other (specify)_____	Amount of straight pipe downstream from meter	24.0 ft ~~Inches~~ _____ 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%

Vspacing = 12.84 in per Frank

S.O. TFP

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:

NA

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 ± 5% error. Describe below the method and equipment used to perform this measurement.

Percent Difference = (M_1 - M_2) ÷ M_2 × 100 = ± % (Acceptable is within ± 10%) (equation 1)

Calibration Multiplier = M_2 ÷ M_1 (equation 2)

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

Describe any apparent problems with installation or operation _____

no apparent problems

Flowmeter accuracy prior to any adjustments: _____ Totalizer reading _____

Flowmeter accuracy after final adjustment: _____ Totalizer reading _____

Flowmeter calibration multiplier: 1.1135

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
		~~3653.~~					
3653.724	09:22:00						
3653.773	09:34:00						
3653.806	09:42:00	0.0820 AF	1335.9	29750	1487.5	-10.2%	
		26717.8 gal					

Note 09:22 on my watch ~~is 09:30~~ is 09:17 on TFP

Notes – Comments – Calculations:

There is a pump across road, along w/ a HPP turbine that used to be used on this system. Now the pump is bypassed & the system is all gravity flow

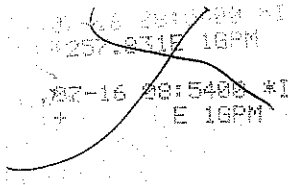
0.082 AF
4356.0 ft³
3571.9 ft³
26718 gal

WATER LEVEL DATA	
Does the well have access to measure water levels? ☐ Yes ☐ No (*check one*) NA/Spring	
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 7/16/2004
(person performing measurements)



Florence LS Spring

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OUTER DIAMETER
16.0000  IN

PIPE MATERIAL
?        CS.SS

WALL THICKNESS
0.2851   IN

INNER LINING
?        NO LING.

KIND OF FLUID
?        WATER

KIND OF FLUID
?        WATER

SENSOR MOUNTING
?

TYPE OF SENSOR
?        SMALL

SPACING
12.341   IN U

07-16 09:0400 *R
+00.79 %  0I2

0587.8   MMSEC
100.00   % T0

09:17+152.163E 1GPM   00R
      +00000 *10 G    00R
      -00000 *10 G    00R

09:18+148.728E 1GPM   00R
      -00147 *10 G    00R
      -00000 *10 G    00R

09:19+147.936E 1GPM   00R
      -00296 *10 G    00R
      -00000 *10 G    00R

09:20+148.200E 1GPM   00R
      -00444 *10 G    00R
      -00000 *10 G    00R

09:21+150.313E 1GPM   00R
      -00593 *10 G    00R
      -00000 *10 G    00R

09:22+147.936E 1GPM   00R
      -00741 *10 G    00R
      -00000 *10 G    00R

09:23+150.049E 1GPM   00R
      -00890 *10 G    00R
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07-16 09:5400 *I
      E 1GPM

R00    0 I* 00000-
R00    0 I* 02125 +
R00  09:28+151.634E 1GPM

R00    0 I* 00000-
R00    0 I* 02975 +
R00  09:27+150.042E 1GPM

H00    0 I* 00000-
H00    0 I* 02827 +
R00  09:26+150.212E 1GPM

H00    0 I* 00000-
H00    0 I* 02677 +
H00  09:25+148.728E 1GPM

R00    0 I* 00000-
R00    0 I* 02529 +
R00  09:24+148.728E 1GPM

H00    0 I* 00000-
H00    0 I* 02380 +
R00  09:23+150.049E 1GPM

R00    0 I* 00000-
R00    0 I* 02231 +
R00  09:22+150.049E 1GPM

R00    0 I* 00000-
R00    0 I* 02082 +
R00  09:21+147.936E 1GPM

H00    0 I* 00000-
H00    0 I* 01934 +
H00  09:20+148.728E 1GPM

H00    0 I* 00000-
H00    0 I* 01786 +
R00  09:29+148.464E 1GPM

H00    0 I* 00000-
H00    0 I* 01637 +
H00  09:28+149.521E 1GPM

R00    0 I* 00000-
R00    0 I* 01488 +
R00  09:27+148.728E 1GPM

H00    0 I* 00000-
H00    0 I* 01338 +
H00  09:26+153.219E 1GPM

R00    0 I* 00000-
R00    0 I* 01189 +
R00  09:25+147.936E 1GPM

R00    0 I* 00000-
R00    0 I* 01040 +
R00  09:24+150.049E 1GPM
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