

[illegible]

Method of Determination:

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
A0011031	Subm.	3			
House well (no tag)	Subm.	1			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Panametrics				277960		4/2011

2. Measurements:

Panametrics = 45.2 gpm

Badger = 43.1 gpm

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Panametrics Meter

$$\frac{45 \text{ gpm}}{448.83 \text{ gpm/cfs}} = 0.10 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

$$\frac{1000 \text{ range cattle} \times 12 \text{ gpd} \times 365 \text{ days}}{325,850 \text{ g/af}} = 13.4 \text{ afa}$$

G. NARRATIVE/REMARKS/COMMENTS

Application for Permit was received on February 8, 1995 and the Permit was issued on February 24, 1995 for 0.10 cfs to be diverted from two existing wells for stock water purposes for 1000 heifers. Proof of Beneficial Use was required by March 1, 1996. Proof was received on February 20, 1996. On March 5, 1996 the department informed the permit holder that the proof would not be accepted until an additional \$165.00 was paid to upgrade the drilling permit from domestic to non-domestic. On March 8, 1996 the permit holder submitted the additional fees but the receipt was not forwarded to the appropriate section for acknowledgement and the Department lapsed the permit in error on April 15, 1996. The error was corrected and the permit was reinstated on April 18, 1996 with no advance in priority. The two wells are tied together with a pumping level of 320 feet and one flow meter. WMIS information showed that a Badger flow meter was installed on 11/1/2005. Jana Reeder and I visited the site on 8/26/2010 where a measurement was conducted with our Panametrics meter which found the average flow to be 45.2 gpm or 0.10 cfs. (Their installed meter said 43.1 gpm.) The volume calculated for the 1000 cows is 13.4 AF. Of this 0.10 cfs & 13.4 AF, 0.04 cfs & 11.9 AF are already accounted for under existing right 37-10223, decreed in 2002 from the house well. This leaves 0.06 cfs and 1.5 AF available under this license. In addition, when combined with the five existing rights already at the site, all will be limited to 0.26 cfs and 41.9 AF. (In 2003 Transfer 69348 was approved and brought in additional water to be diverted from two existing wells, including the second well associated with this permit/license from four rights, including 37-10223, with a combined limit of 0.10 cfs and 25.4 AF. Another transfer, 75042, was approved in 2009 which again brought in more water with a combined limit of 0.2 cfs and 40.4 AF from a total of five rights.)

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	1/01 to 12/31	0.06CFS	1.5 AF
<u>Totals:</u>		0.06 CFS	1.5 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ Other

I. AUTHENTICATION

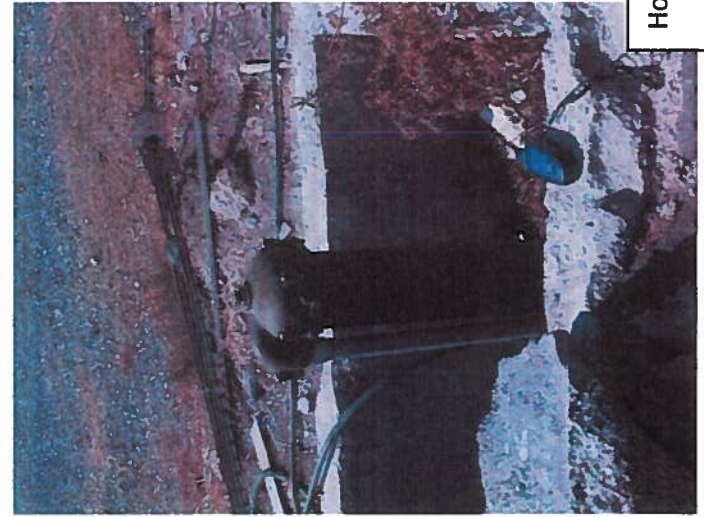
Field Examiner's Name Jamie Robertson Date 9/2/11

Reviewer [Signature] Date 9/26/11

37-8839

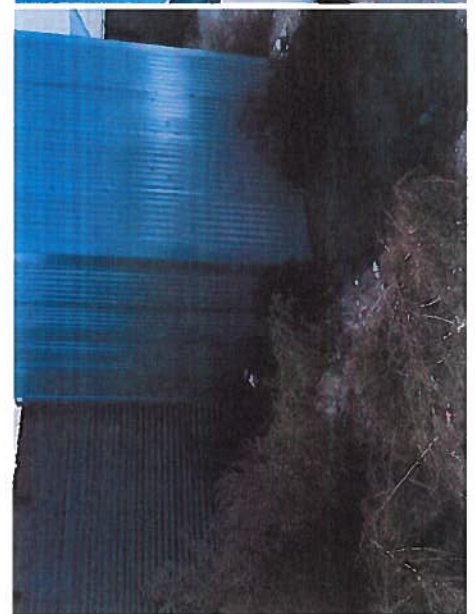


House well

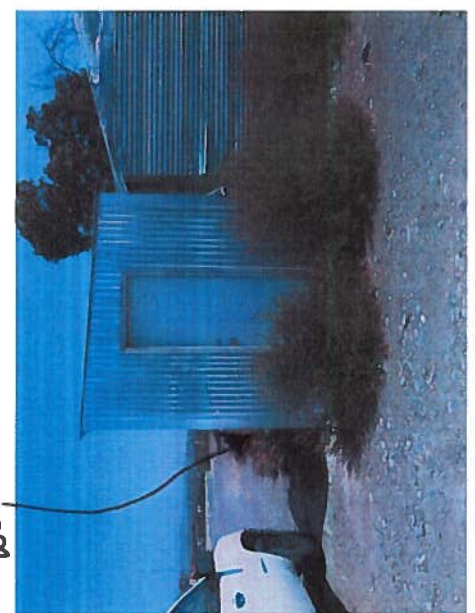


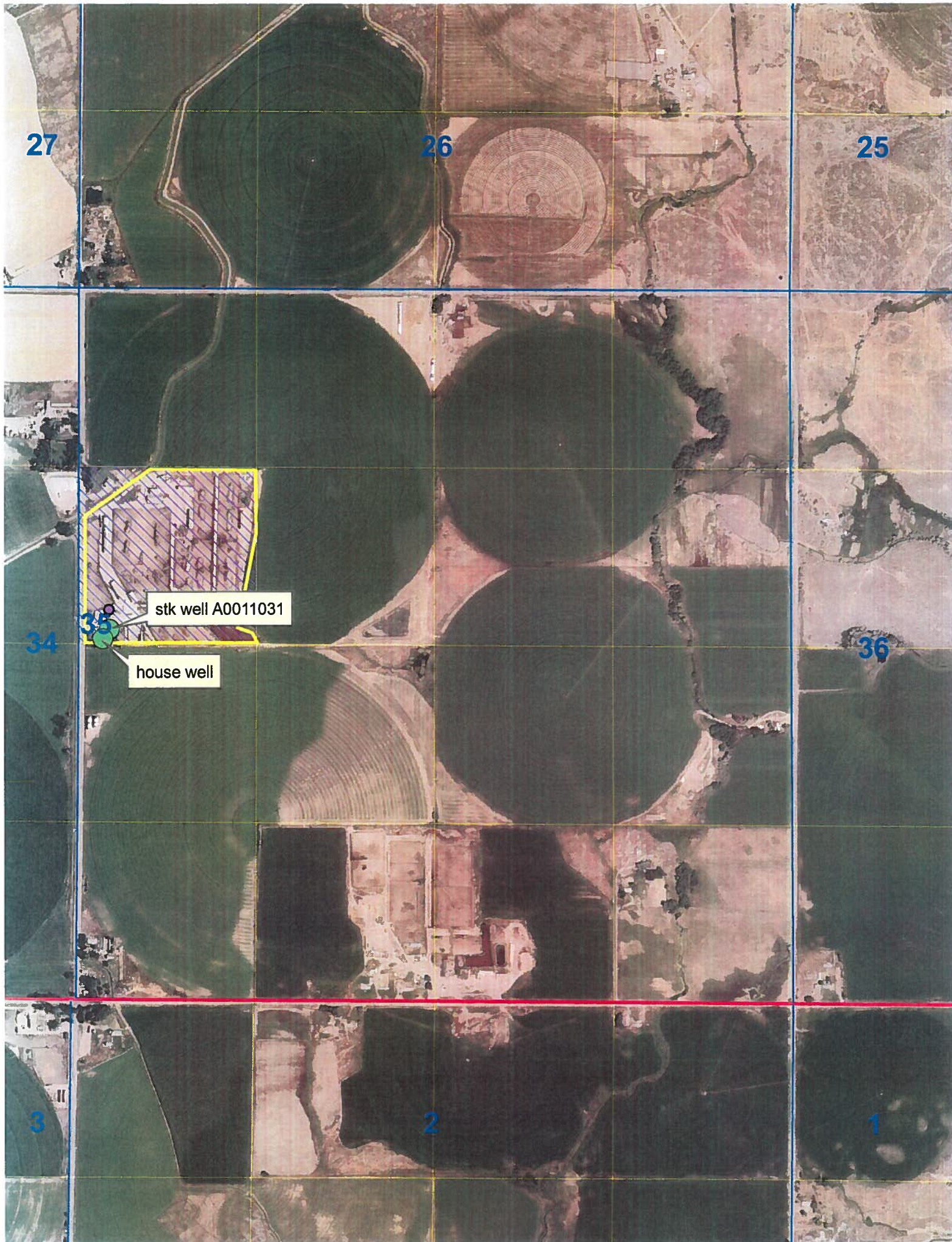
Stock water well tag A0013031

well (behind shed)



Badger meter in shed





27

26

25

34

35

36

stk well A0011031

house well

3

2

1

IDAHO DEPARTMENT OF WATER RESOURCES
Water Measurement Program

WATER MEASURING DEVICE CERTIFICATION

(Revised 7/2002)

District 130Diversion Name Gooch Heifer FacilityInventory Date 8/26/10Inventory Examiner Tana HeariePCC o.k.? ☐ Yes ☐ NoTest Date 8/26/10Person performing test Tana HearieExam complete? ☐ Yes ☐ NoName: Gooch

Water Right No.: _____

Legal Description: T _____ R _____ Sec. _____ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ Site Tag No.: A0011031Diversion Name: Heifer Facility

Current Owner

Name Ellis GoochPhone 308-4760Address 724 W. 260 N

Cell _____

City Shoshone St Id Zip 83352

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: well head

PLS/USGS LOCATOR _____

For Department/District Use Only

Received by _____

Date _____

Reviewed by _____

Date _____

METER AND MOUNTING PIPE INFORMATION			
Motor HP		Volume units	Acre-Feet Gallons Other (specify) _____
Meter Install Date		Volume multiplier	x 1
Manufacturer	Badger	Installation location	☒ Excel ☐ Fair ☐ Good ☐ Poor
Meter Type	mag	Pipe material	CS
Meter Model		Outside diameter	2.38
Serial Number		Wall thickness	.146
Size (nominal)	2"	Inside diameter	
Measure Flow Rate?	☒ Yes ☐ No	Amount of straight pipe upstream from meter	12 Inches Pipe Lengths
Measurement Units	☐ CFS ☒ GPM Other (specify) _____	Amount of straight pipe downstream from meter	12 Inches Pipe Lengths
Flow Rate Multiplier	x 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.)

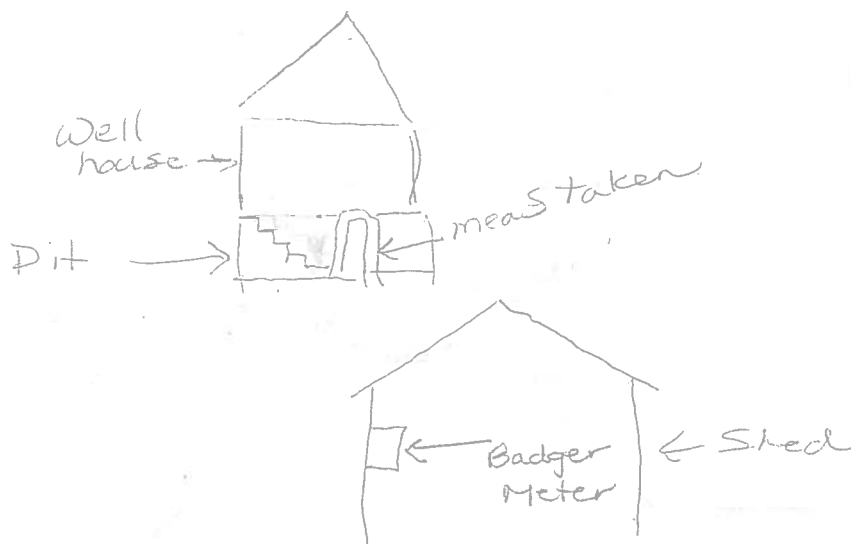
Multiple Wells

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

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 Sara Reeder Date 8/26/10
(person performing measurements)

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 none

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
52630652	Start	444	43.1	452.2	45.2	-4.64	Good Meter
52631096	10:18						
	10:30						

Notes – Comments – Calculations: Sound Speed 4853

Log Name GOOCH.LOG
Log Title A0011031
Start Time 8/26/2010 11:33
End Time 8/26/2010 12:44
Records 3
Interval 60
Error Flags 8208
Cyclic Flags 2

Item #	Label	Symbol	UnitType	Channel	Comport	Computer
0	Velocity	ft/s	578	0		0 PT878
1	Volume	gal/m	846	0		0 PT878
2	(+)Total	gal	1160	0		0 PT878

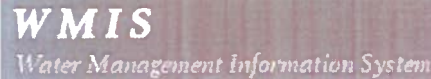
Date/Time	Velocity (ft/s)	Volume (gal/m)	(+)Total (gal)	Error #
8/26/2010 11:33:05	3.288452914	35.09643528	413889.4241	0
8/26/2010 11:34:05	3.312869286	35.35702214	413923.9077	0
8/26/2010 11:35:05	5.29086736	56.46746015	413963.9886	0
8/26/2010 11:36:05	5.202005987	55.51907577	414021.3811	0
8/26/2010 11:37:05	5.079105886	54.20740868	414075.0991	0
8/26/2010 11:38:05	3.282900404	35.03717541	414112.348	0
8/26/2010 11:39:05	3.286116152	35.0714959	414146.2929	0
8/26/2010 11:40:05	5.294915927	56.51066901	414184.611	0
8/26/2010 11:41:05	5.206645477	55.56859131	414240.1341	0
8/26/2010 11:42:05	5.139626963	54.85332764	414296.2534	0
8/26/2010 11:43:06	3.214458688	34.30672243	414341.6239	0

452.1997945

panametrics=45.2 gpm
 badger=43.1gpm

-4.64%

Idaho Department of Water Resources



Quick Search:

[For assistance, email WMIS Info](#)

Search Method:

Metal Tag Number

Metal Tag Number

A0011031

Search

You are logged in as jreeder

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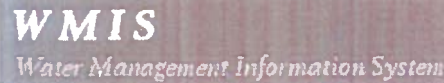
Flow Meter Calibrations

You are viewing 400192; A0011031

[Click here to insert a new record.](#)

Edit	Delete	Calibration Date/Time:*	08/26/2010	Factor:	1.05
		Installed Meter Data:		Standard Meter Data:	
		Installed Meter Flow:	43.10	Standard Meter Flow:	45.20
		Rate Unit:*	GPM	Rate Unit:	GPM
		Rate Multiplier:*	1.0000	Pipe Material:	CARBON STEEL
		Volume Multiplier:*	1.0000	Outside Diameter (Inches):	2.38
		Volume Unit:*	GAL	Wall Thickness (Inches):	0.15
		Location:	EXCL	Downstream Distance (feet):	1.00
		Comments:		Upstream Distance (feet):	1.00
				Calibration Confidence:	
		Installed Meter Information:		Installation Date:	11/01/2005
		Manufacturer:	BADGER	Serial Number:	050523932001754
		Model Number:	primo	Other Well:	wmis number
		Meter Type:	MAGNETIC		400193
Edit	Delete	Calibration Date/Time:*	07/18/2006	Factor:	0.97
		Installed Meter Data:		Standard Meter Data:	
		Installed Meter Flow:	34.00	Standard Meter Flow:	33.00
		Rate Unit:*	GPM	Rate Unit:	GPM
		Rate Multiplier:*	1.0000	Pipe Material:	STEEL
		Volume Multiplier:*	1.0000	Outside Diameter (Inches):	2.38
		Volume Unit:*	GAL	Wall Thickness (Inches):	0.15
		Location:	GOOD	Downstream Distance (feet):	0.50
		Comments:		Upstream Distance (feet):	1.25
				Calibration Confidence:	
		Installed Meter Information:		Installation Date:	11/01/2005
		Manufacturer:	BADGER	Serial Number:	050523932001754
		Model Number:	primo	Other Well:	wmis number
		Meter Type:	MAGNETIC		400193

Idaho Department of Water Resources



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Metal Tag Number

A0011031

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Flow Meter Water Usage

You are viewing 400192; A0011031

[Click here to insert a new record.](#)

Edit	Delete	Report Year*	Totalizer Start	Acre Feet Volume	Max Flow Rate (CFS)	Comments
		2010	44782428.00	37.13	0.00	end of year data collected by staff. jjr
		Validated	Totalizer End	Adjusted Acre Feet	Adjusted Max Flow Rate	
		Validated by IDWR	56880712.00	38.99	0.00	
		Calibration Data		Acre Feet Qualifier	Preferred Method	
		Date:	8/26/2010 12:00:00 AM	No Monthly Recordings	FM	
		Factor	1.05			
		Vol. Multiplier:	1.0000			
		Vol. Unit	GAL			
Edit	Delete	Report Year*	Totalizer Start	Acre Feet Volume	Max Flow Rate (CFS)	Comments
		2009	33180000.00	35.61	0.00	
		Validated	Totalizer End	Adjusted Acre Feet	Adjusted Max Flow Rate	
		Validated by Water Master	44782428.00	34.54	0.00	
		Calibration Data		Acre Feet Qualifier	Preferred Method	
		Date:	7/18/2006 12:00:00 AM	No Monthly Recordings		
		Factor	0.97			
		Vol. Multiplier:	1.0000			
		Vol. Unit	GAL			
Edit	Delete	Report Year*	Totalizer Start	Acre Feet Volume	Max Flow Rate (CFS)	Comments
		2008	21680000.00	35.29		Audit 33557272. jjr
		Validated	Totalizer End	Adjusted Acre Feet	Adjusted Max Flow Rate	
		Validated by IDWR	33180000.00	34.23		

Calibration Data		Acre Feet Qualifier	Preferred Method		
Date:	7/18/2006 12:00:00 AM	Monthly Recordings			
Factor	0.97				
Vol. Multiplier:	1.0000				
Vol. Unit	GAL				
Edit Delete	Report Year*	Totalizer Start	Acre Feet Volume	Max Flow Rate (CFS)	Comments
	2007	9587000.00	37.11		audit reading 21666772 (cy)
	Validated	Totalizer End	Adjusted Acre Feet	Adjusted Max Flow Rate	
	Validated by IDWR	21680000.00	36.00		
Calibration Data		Acre Feet Qualifier	Preferred Method		
Date:	7/18/2006 12:00:00 AM	Monthly Recordings			
Factor	0.97				
Vol. Multiplier:	1.0000				
Vol. Unit	GAL				
Edit Delete	Report Year*	Totalizer Start	Acre Feet Volume	Max Flow Rate (CFS)	Comments
	2006	1800000.00	23.90		audit reading 9551599 (cy)
	Validated	Totalizer End	Adjusted Acre Feet	Adjusted Max Flow Rate	
	Validated by Water Master	9586907.00	23.18		
Calibration Data		Acre Feet Qualifier	Preferred Method		
Date:	7/18/2006 12:00:00 AM	Monthly Recordings			
Factor	0.97				
Vol. Multiplier:	1.0000				
Vol. Unit	GAL				
Edit Delete	Report Year*	Totalizer Start	Acre Feet Volume	Max Flow Rate (CFS)	Comments
	2005	0.00	5.52		Device installed late in 2005 but was not working properly due to a blown electrical supply fuse. Will begin reporting in 2006 (cy)
	Validated	Totalizer End	Adjusted Acre Feet	Adjusted Max Flow Rate	
		1800000.00	5.36		
Calibration Data		Acre Feet Qualifier	Preferred Method		
Date:	7/18/2006 12:00:00 AM	Partial Year Measurement			
Factor	0.97				
Vol. Multiplier:	1.0000				
Vol. Unit	GAL				
Edit Delete	Report Year*	Totalizer Start	Acre Feet Volume	Max Flow Rate (CFS)	Comments
	2004				no device, yard in operation beginning 2005
	Validated	Totalizer End	Adjusted Acre Feet	Adjusted Max Flow Rate	
	Validated by IDWR				
Calibration Data		Acre Feet Qualifier	Preferred Method		

No Flow Measuring Device					
Edit Delete	Report Year* 2003	Totalizer Start	Acre Feet Volume	Max Flow Rate (CFS)	Comments no device, no use under transfer
	Validated Validated by IDWR	Totalizer End	Adjusted Acre Feet	Adjusted Max Flow Rate	
	Calibration Data		Acre Feet Qualifier No Flow Measuring Device	Preferred Method	
Edit Delete	Report Year* 2002	Totalizer Start	Acre Feet Volume	Max Flow Rate (CFS)	Comments reporting requirement begins in 03
	Validated Validated by IDWR	Totalizer End	Adjusted Acre Feet	Adjusted Max Flow Rate	
	Calibration Data		Acre Feet Qualifier No Flow Measuring Device	Preferred Method	