

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23003

Exam Date: 10-4-2016

1. Current Owner:
JERRY LEE INAMA PO BOX 33 GARDEN VALLEY ID 83622 (208)864-2199

2. Accompanied by: Jerry Lee Inama
Phone No: (208)781-0871
Address: PO Box 33 Garden Valley, ID 83622
Relationship to Permit Holder: Original Permit Holder

3. SOURCE:
GROUND WATER

TRIBUTARY:
MIDDLE FORK PAYETTE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW¼SE¼ Sec. 10, Twp 09N, Rge 04E, B.M. BOISE County

Method of Determination: On site field exam and handheld GPS

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N	04E	15	X																

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N	04E	15	0.2																0.2

Total Acres: 0.2

Method of Determination: On site field exam, aerial imagery, and ArcMap GIS tools.

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X Indicate weir size/pipe as applicable.

X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

N/A Aerial Photo Attached (required for irrigation of 10+ acres).

X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Diversion #1	Unknown	3	Unknown	Unknown	Unknown

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						
N/A						

2. Measurements: Unable to take any measurements.

E. FLOW CALCULATIONS

Measured Method:

_____ Additional Computation Sheets Attached

$$Q = \frac{8.8 * (\text{Efficiency}) * hp}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 160

psi = NA

hp= 3

16 head of stock >0.02cfs

Theoretical = NA

Permit	0.200 cfs
B.U. Standard Allowance	0.01 cfs + .02 stock = 0.03
B. U. Proof Fee	\$50 → 0-0.20 cfs
Measurement or Theoretical Rate	N/A
License Recommendation	0.02 cfs 0.03

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.2 \text{ ac}) \times (3.5) = 0.7 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = [0.01(\text{cfs})] \times (231 \text{ days}) \times 1.9835 = 4.6 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 0.7$$

2. Volume Calculations for Other Uses:

$$16 \text{ head of stock} \times 12 \text{ gpd} \times 365 \text{ days} = 70,080 \text{ gpy} = 0.2 \text{ af/y}$$

Admin Memo 3 recommends 0.4 af/y

G. NARRATIVE/REMARKS/COMMENTS

Field exam was completed by agent Justin Shearer on October 4, 2016 and was accompanied by land owner Jerry Lee Inama. Mr. Inama is the original permit holder. The point of diversion is located within a 36" cistern on the river bank of the Middle Fork of the Payette River. Within the 16' deep cistern the owner is using a 3 hp submersible pump to deliver water approximately 160' uphill to his property for irrigation and stockwater purposes through 3" PVC to yard and orchard. The system does have the capabilities to be lockable that would provide the watermaster suitable control of the diversion. Information regarding the type or serial information of the pump could not be determined during the exam. There is no POD overlap. Additionally, there is no pertinent POU overlap associated with this water right.

Aerial imagery and on site field exam were used to determine irrigated acres. ArcMap tools were used to calculate a total are of 0.2 acres. During the field examination Mr. Inama referred to his POU being close to 6 acres, however observable irrigated land only amounted to the calculated value mentioned above. Furthermore, Mr. Inama let us know that beneficial use had not been developed in the SESE QQ pertinent to this WR, therefore that portion has been removed for licensing with acreage and place of use revised to reflect this change since time of permittal. Mr. Inama indicated that he used this WR solely for irrigation and stockwater purposes while not utilizing his domestic WR 65-23001 for irrigation either. No other overlap exists.

Because system equipment info was unattainable at the time of the field exam besides pump hp, no theoretical was able to be calculated. Sprinkler nozzle discharge information was also unattainable. Therefore the BU standard allowance was the determining factor in recommending diversion rates. Because a large portion of the property had not been developed and the evidence of irrigated land was significantly smaller than the permitted amount, the acreage values for this WR were revised to reflect these observations. Consequently this also dramatically decreased the recommended diversion rates and allowable volumes for irrigation use.

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>
IRRIGATION	03/15 to 10/31	0.01 CFS	0.7AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.4AF
	<u>Totals:</u>	<u>0.02 CFS</u> 0.03	1.1 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 ☒ None

I. AUTHENTICATION

Field Examiner's Name _____ Date _____

Reviewer _____ Date _____

Legend

- Sprinklers
- 65-23003 System
- Water Right POD

SWSE

SESE

10

Diversion #1

09N04E

NWNE

NENE

15



View of
submersible 10hp
pump



Top view of culvert
with lid on



View of culvert
showing its location
on the banks of the
Middle Fork of the
Payette River



Front Yard, part of
POU



More front Yard,
POU



Back Yard, POU



Sprinkler



Sprinkler up close

IMPULSE SPRINKLERS

Gilmour impulse sprinklers with full or partial coverage are ideal for medium and large lawns. Patented impulse arm saves water by eliminating back and side splash. Diffuser screw allows easy fingertip adjustment of water stream for even coverage.

IMAGE	ITEM	UPC	AREA	CONSTRUCTION	PRODUCT FEATURES
	196SPB	0 34411 01196 6	Up to 5,800 sq. Ft. (86 Ft. dia)	• Impact-resistant, rust-proof polymer • Sled base for stability	• Pattern Master – uniquely able to adjust to the contours of a yard to eliminate waste and maximize water delivery where needed the most • Programming disc with 12 points of adjustment
	193TPB	0 34411 01191 1	Up to 5,800 sq. Ft. (86 Ft. dia)	• Impact-resistant, rust-proof polymer • Sled base for stability	• Built-in timer shuts off water automatically (up to 2 hrs of watering) • "ON" setting for continuous watering
	193SPB	0 34411 01192 8	Up to 5,800 sq. Ft. (86 Ft. dia)	• Impact-resistant, rust-proof polymer • Sled base for stability	• Serial connection
	193MPS	0 34411 01195 9	Up to 5,800 sq. Ft. (86 Ft. dia)	• Impact-resistant, rust-proof polymer • Triple spike base with foot step	• Serial connection
	193MMS	0 34411 01194 2	Up to 5,800 sq. Ft. (86 Ft. dia)	• Impact-resistant, rust-proof polymer head • Metal triple spike base with foot step	• Serial connection
	193H	0 34411 01193 5	Up to 5,800 sq. Ft. (86 Ft. dia)	• Impact-resistant, rust-proof polymer	• Head only

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 65-23003

1. Owner _____ Phone No. _____

Current address _____

2. Examiner's name _____ EXAM DATE _____

3. Accompanied by _____ Email _____

Address _____

Relationship to permit holder _____ Phone No. _____

4. Source _____ tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use _____

2. Other water rights with the same source and point of diversion _____

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks
			SW	SE	10	9N	4E		# 49
									N44° 07.300'
									W115° 57.867'

2. Place(s) of Use: _____ Method of determination _____

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
			3.0																3.0

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.

Scale: 1" = _____

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☐ Aerial photo attached (required for irrigation of 10+ acres)
☐ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: _____

E. NARRATIVE/REMARKS/COMMENTS

12 cattle
4 horse
16 head

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☐ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

G. 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:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			_____	_____

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☐ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature _____ Date _____

SEAL

Reviewer _____ Date _____



