

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	05W	19						2.0											2.0
		Lot #						1											
																	Total Acres =	2.0	

Permit No: 63-33376

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Method of Determination: Taxlot acres – 2.3 acres PIN R23079010A1

Shape based on information provided by D. Nelson, who took pictures of property with W. Robertson on 04/07/2016.

Change in POU? ____ Y ____ X ____ N Amendment Required? ____ Y ____ X ____ N

PLACE OF USE: Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	05W	19						X											
		Lot #						1											
Total Acres =																			

Method of Determination: Homes visible on imagery. PIN R23079010A1 Based on taxlot information and 2015 NAIP imagery.

Change in POU? ____ Y ____ X ____ N Amendment Required? ____ Y ____ X ____ N

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

Indicate weir size/pipe as applicable.

___ 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. FLOW CALCULATIONS

___ Additional Computation Sheets Attached

Measured Method:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. 2.0 acre(0.03 cfs) = 0.06 cfs

Per D. Nelson, well pump is a variable speed drive. See theoretical calc. Sheet.

Per Field Examiners Handbook – 1 home with no irrigation - 0.02 cfs

Measurement = 0.06 cfs irrigation, 0.02 cfs domestic

Permit allowed = 0.06 cfs for irrigation, 0.02 cfs domestic

License recommend for 0.06 cfs irrigation, 0.02 cfs domestic

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.0 \times 4.5 = 9.0$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 260 \times 1.9835 = 31.0$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 9.0$$

2. Volume Calculations for Other Uses:
Per Field Examiners Handbook – 1 home with no irrigation - 0.6 afa

G. PURPOSE OF USE

Irrigation ☒X ☐Y ☐N # Stock _____ Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ☐Y ☐N

Method of Determination: Information provided by permit holder and NAIP imagery.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Season of Use: 03/01-11/15 (260 days)
Headgate: 4.5
Cons. Use: 3.5
Water District: None
Groundwater District: None

See photos provided by D. Nelson dated 04/07/2016.

Conditions

004	This right does not grant any right-of-way or easement across the land of another.
X35	Rights 63-33368 and 63-33376 when combined shall not exceed a total diversion rate of 0.6 cfs, a total annual maximum diversion volume of 9.0 af at the field headgate, and the irrigation of 2.0 acres.
065	The right holder shall make full beneficial use of all surface water available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right for land with an appurtenant surface water right(s) to those times when the surface water supply is not available or reasonably sufficient to irrigate the place of use authorized under this right.
R69	This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
X60	Place of use is located within Parcel Lot 1, Block 1 of Idaho Investment Co. Tx 06374
132	Domestic use is for 1 home. Irrigation of lawn, garden and landscaping associated with the home is authorized under the irrigation component of this right.
103	When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

Did not use condition 105 as 63-33376 was filed to replace the water no longer available under 63-33368 due to the waste water ditch being removed by the irrigation company. Condition 105 mentions forfeiture. Right 63-33376 is at risk of forfeiture due to irrigation company decisions out of control of the right holder of 63-33376. Used condition X35 to maintain the appropriate use of water if water is available under 63-33368. Maintained condition 065 to maintain the importance of the use of surface water (63-33368) before using groundwater (63-33376) if waste water is available.

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

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/01 to 11/15	0.06 CFS	9.0AF
Domestic	01/01 to 12/31	0.02 CFS	0.6 AF
<u>Totals:</u>		0.08 CFS	9.6 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ X_None

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

Other: < >

J. AUTHENTICATION

Field Examiner's Name  Date 07/11/16

Reviewer  Date 5-2-16

SESE
13 06N06W

SWSW

18

SESE

63-33376

2015 Imagery

04/11/2016

D. Favreau

0 40 80 160 240 320 Feet

NENE 1

24
06N06W

NWNW 1

NWNW 1

19
06N06W

NENW

SENE 2

SWNW 2

SENW



PHOTOGRAPHER AND DATE OF PHOTOS Daniel Nelson and Wilma Robertson 4/7/2016

FILE NUMBER 63-33376



The above photos show the south side of the home, and the photos below show the north side of the home.



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-33376
 Reviewer: D. Favreau
 Date of Review: 3/22/2016

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	3	3	3
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	95	95	95
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.10 44	0.09 39	0.08 36 0.09 39.72

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

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

The horsepower used is for a standard pump. The pressure was estimated by using the standard for pressure tank turn on and shut off of 40 to 60 psi. The lift was estimated using the well log. Well log indicates water from 85 to 94 ft. Casing from 3 to 97 ft. 85 + 10 ft = 95 ft.

