

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11655

Exam Date: 4/12/2012

1. Current Owner: BARBARA A DOAN
6595 MC ELROY RD
MELBA ID 83641
(208)867-3475

And/Or

DAVID LEE DOAN
6595 MC ELROY RD
MELBA ID 83641
(208)922-5946

2. Accompanied by: David Doan
Phone No: same
Address:
Relationship to Permit Holder: owner

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Boise Kuna Irrigation District and an unrecorded domestic use
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

NE1/4NW1/4

Sec. 25, Twp 01N, Rge 02W, B.M.

CANYON County

Method of Determination: GPS

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
01N	02W	25					35.0												35.0

Total Acres: 35

Method of Determination: Field visit and Arc Map.

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</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u>
<u>ID No.*</u>					<u>Size</u>
	unk	25	unk	unk	6" discharge

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
<u>Equipment</u>						

None – theoretical measurement only

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

The system is open discharge therefore I used 10 psi for the pressure. The well log did not show a static water level therefore I checked other logs in the area and found that the lowest level in the area was 195 ft which I used.

used 195' as estimated dynamic level.

$$\frac{(25) \text{ Hp} \times 8.8 \times 0.7}{(10) \text{ PSI} \times 2.31 + 195 \text{ ft}} = 0.71 \text{ cfs}$$

Permit Rate = 0.80 cfs
 Proof Pd (\$100.00) (max cfs) = 1.00 cfs
 Found POU acres 35 * 0.02 cfs/ac = 0.70 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 35 \times 4.5 = 157.5 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.70 \text{ cfs} \times 260 \times 1.98 = 360 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 157.5 \text{ af}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

The right is a supplemental right to the canal water and is not normally used. It was not operating during the field examination. David Doan indicated that there was a 25 HP submersible pump installed in the well but he did not know the model or make. It appeared that everything was connected and once power was turned on that it would be operational.

The system is a single well with a six inch mainline manifold valved to deliver water either east or west through a portable six inch mainline to the ditch system and furrow irrigation. The south line runs south for approximately 1/8th of a mile and dumps into a main ditch system where it can be diverted into cement ditches going north, south, or east and swinging south. This system covers most of the west 1/2 of the POU.

The east line runs slightly further than 1/8th of a mile to also dump into a ditch system. That ditch system continues east to the northeast corner of the property and is then piped south to a cement ditch and/or gated pipe system to irrigate the ground in the southeast portion of the POU. There is a pump in the ditch near the farmstead to allow water to be used to irrigate the lawn area around the home.

The lowest area on the farm is roughly in the center running from the north to the south. Virtually each filed is leveled so that water flows in a different direction across the field than on the adjoining field.

Have conditions of permit approval been met? ____ Yes ____X____ No No measurement device

Recommend modification of meas device/Reporting to OIM which is o.k. with Permitte

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/1 to 11/15	0.700 CFS	157.50 AF
<u>Totals:</u>		0.700 CFS	157.50 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 ___Other

I. AUTHENTICATION

Field Examiner's Name Kelly K. Christensen Date 4-13-12

Reviewer _____ Date _____

Permit # 63-11655
Exam date 4-12-2012
Agent KKC
POD

RECOMMENDED POU

Aerial photo date 2011
Twp Rng Sec QQ
1N 02W 25 NENW



Field map.

Permit # 63-11655

Aerial photo date 2011

Exam date 4-12-12

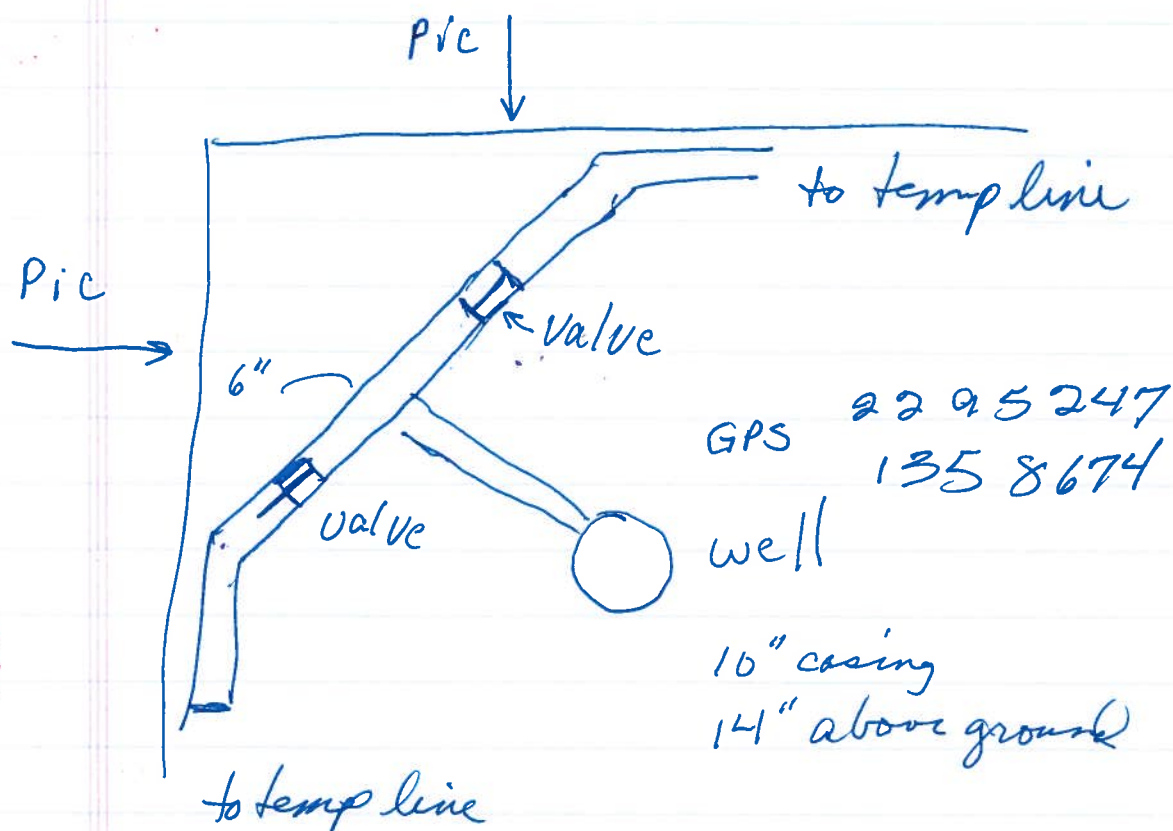
Twp Rng Sec QQ

Agent KKC

1N 02W 25 NENW



field exam notes 4-12-12
 Accompanied by David Doan (owner)



The well delivers water into a 6" mainline that is Tied at the well. There is a valve on either leg allowing water to be diverted either south or east. The east line runs past the farmstead to dump into a cement ditch and furrow irrigation on the north eastern most parcel. ^{Flow is south in field} The water can be piped south along the eastern side of the POU to the south east parcel that is also furrow irrigated with flow going west.

The south line is approx 1/8 mi long and dumps into a cement ditch That carries water north back along the pipeline, east and then curving south. The discharge point is the high point for the eastern portion of the irrigated ground.

House lawn is sprinkled via a pump in the ditch.

63-11655 Picture Set 1 exam date 4-12-12

You are looking east in this photo.

McElroy Rd

portable 6" mainline

Well



63-11655

Picture Set 1 exam date 4-12-12

You are looking south in this photo toward photo set 3s location.

Valves

To east line

photo 3 location

To south line



63-11655

This photo set is looking north on the left to southeast on the right. This shows where the portable mainline from the well ends along the west side of the POU.

on the right.

POD

Picture set 3

Field exam date 4-12-12

Farmstead

