

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31141

Exam Date: 8/1/2012

1. Current Owner: KATHRYN SPENCER
722 VALLI HI RD
EAGLE ID 83616
(208) 867-4046
2. Accompanied by: Kathryn Spencer
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCE TRIBUTARY
GROUND WATER

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

SW1/4NE1/4

Sec. 32, Twp 05N, Rge 01E, B.M.

ADA County

Method of Determination: Arc Map (Aerial Photo); GPS Latitude N.43°43.788', Longitude W.116°21.824'; Datum NAD83.

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>	
05N	01E	32			3.9														3.9

Total Acres: 3.9

Method of Determination: Arc Map (Aerial Photo)

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>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</u> <u>Size</u>
__Unknown__	Franklin	_5_		Unknown	

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: No field measurement. Pitot Tube too small for sprinkler head nozzle.

E. FLOW CALCULATIONS

Measured Method: (Theoretical)

____ Additional Computation Sheets Attached

HP = 5

Z = 115' (IDWR Theoretical Dynamic Pumping
Level Diagram for Wells)

P = 50 psi (Assumed)

$$Q = 8.8 \times 0.7 \times 5/115 + (2.31 \times 50) = 30.8/230.5 = 0.13 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.13 \text{ cfs} > 0.11 \text{ cfs } Q(\text{permit})$$

Appears existing pumping system can attain the permit diversion flow rate of 0.11 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.9 \times 4.5 = 17.6 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.11 \times 260 \times 1.9835 = 56.7 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 17.6 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A ground water well, drilled in 1989 with a 6" steel casing, is located near the north end of Lot 1, Whispering Winds Subdivision. Two pumps are installed in the well. A 2 hp submersible pump provides water for domestic use to one home, and a 5 hp submersible pump provides water for irrigation of 3.9 acres of lawn, gardens, and landscaping. The pump controls and pressure tanks are located in a subsurface pump house/vault.

IRRIGATION SYSTEM:

The 5 hp submersible irrigation pump discharges water through a 3" galvanized pipe at the pump house/vault. The pressurized irrigation system is comprised of a mixture of pop-up and rotary sprinklers, and drip lines.

OVERLAP (PLACE OF USE):

Capitol View Irrigation, Inc., delivers water to their service area within the SW ¼ of the NE ¼ of Section 32, through the Farmers Union Canal. However, the Farmers Union Canal is approximately 2 miles south of the place of use and is inaccessible to the right holder.

WATER BEARING ZONE:

The well log indicates a well depth of 190 feet, which complies with the water bearing zone requirement from 180 – 190 feet.

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

CONDITION NO.1 – Water bearing zone to be appropriated is from 180 – 190 feet. Well log indicates a well depth of 190 feet, which complies with the condition of approval.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.11	&/or	N/A
Beneficial Use Limit	0.11	&/or	N/A
System Measurement	0.13 (theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	20.0
Recommended Amount	0.11	&/or	N/A

H. 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	0.110 CFS	17.6 AFA
<u>Totals:</u>		0.110 CFS	17.6 AFA

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

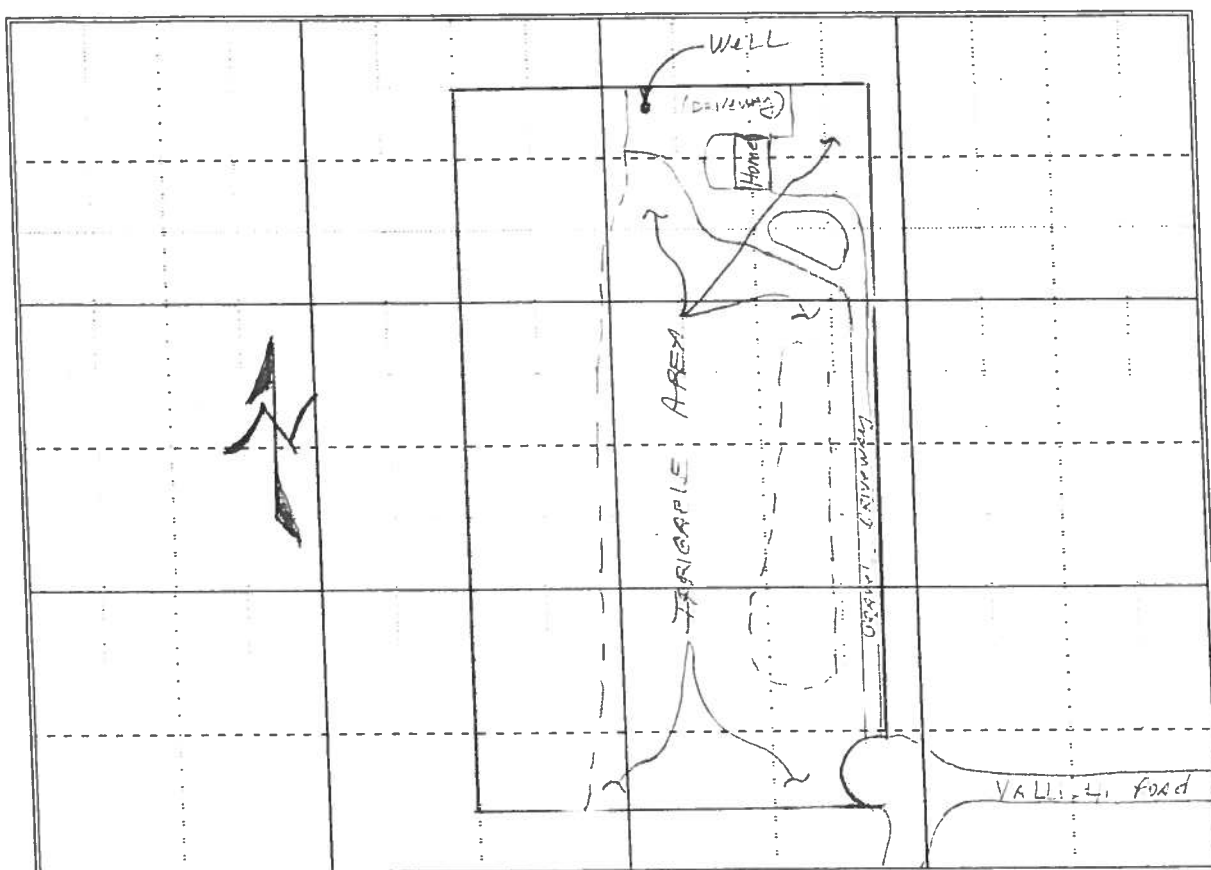
___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 10/31/12

Reviewer _____ Date _____

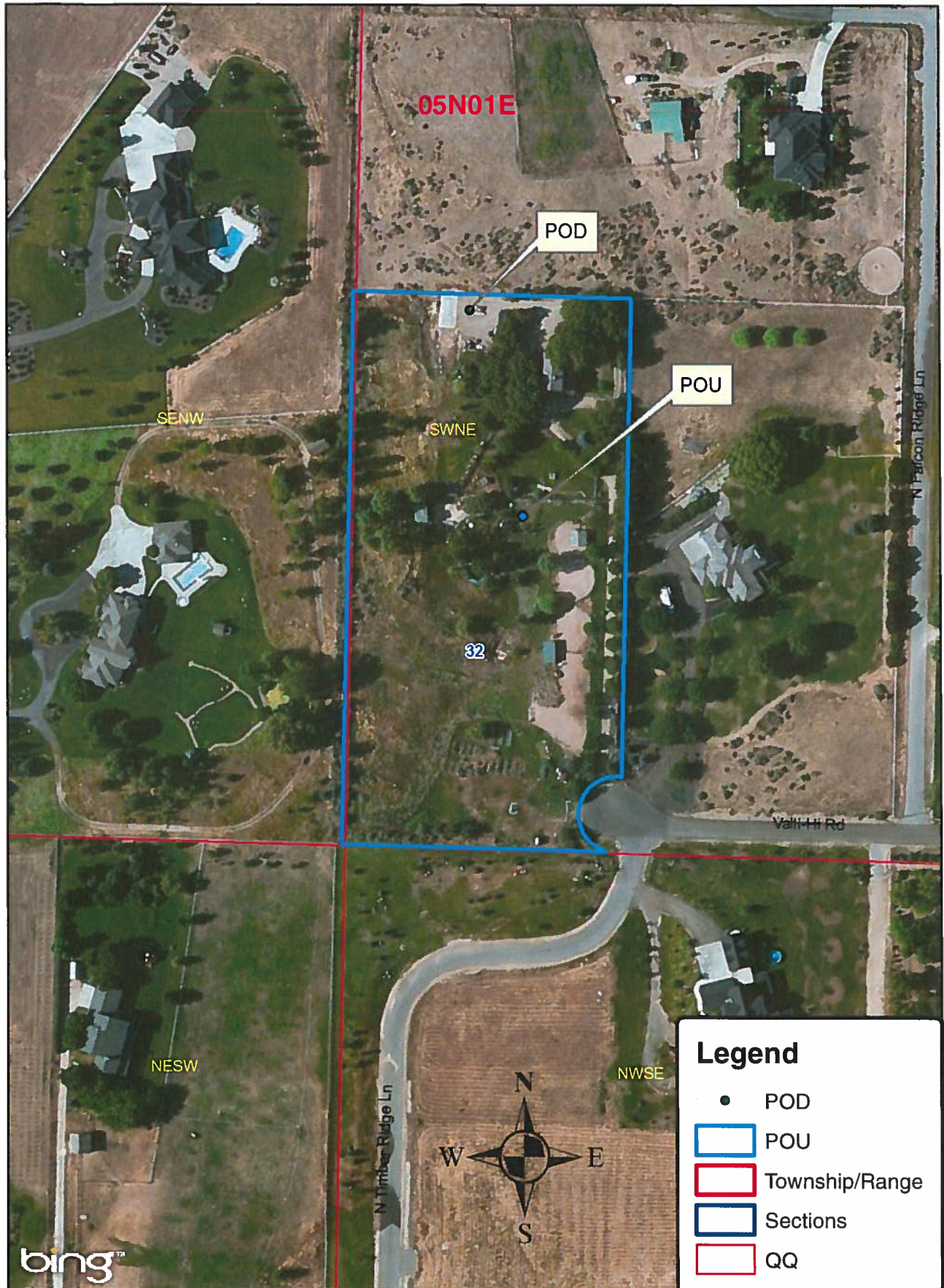
3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ 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

63-31141



FIELD EXAM PHOTOS

Water Right Permit: 63-31141

Field Exam Date: 8-1-12

PLS: SW1/4, NE1/4 Section 32, T.05N, R.01E.

Field Examiner: RC



Point of Diversion: View northeasterly of ground water well. Well contains two submersible pumps – A 2hp for domestic use for one home, and a 5hp pump for irrigation. A subsurface pump house/vault is shown easterly of well.



Place of Use: View southeasterly of open space, garden boxes, and landscaping



Place of Use: View westerly near the easterly property line of lawn and landscaping near the center of the lot.



Place of Use: View northeasterly from the southwest property corner of the open space areas, gardens, and landscaping.

1. WELL OWNER

Resources

939-6032

Name Mike Lehemore
 Address Eagle Id. 772 Valley Hi Rd
 Owner's Permit No. 107A 63-89-2-127-000

7. WATER LEVEL

Static water level 105 feet below land surface.
 Flowing? ☐ Yes ☒ No G.P.M. flow _____
 Artesian closed-in pressure _____ p.s.i.
 Controlled by: ☐ Valve ☐ Cap ☐ Plug
 Temperature _____ OF. Quality _____
 Describe artesian or temperature zones below.

2. NATURE OF WORK

WR # 63-10803

- ☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

- ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

- ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☒ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
<u>.250</u> inches	<u>6</u> inches	<u>1</u> feet	<u>179</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ NoWas a packer or seal used? ☒ Yes ☐ NoPerforated? ☐ Yes ☒ NoHow perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☒ Yes ☐ NoManufacturer's name CookType 304 Model No. _____Diameter 5 Slot size 0.25 Set from 180 feet to 190 feet

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal depth 18 Material used in seal: ☐ Cement grout☒ Bentonite ☒ Puddling clay ☐ _____Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing☒ Overbore to seal depthMethod of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld☐ Cemented between strata

Describe access port _____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
<u>40</u>		<u>2</u>

9. LITHOLOGIC LOG

Bore Diam.	Depth		Material	Water	
	From	To		Yes	No
<u>6</u>	<u>0</u>	<u>2</u>	<u>Top Soil</u>		☒
	<u>2</u>	<u>96</u>	<u>SAND & Clay</u>		☒
	<u>96</u>	<u>110</u>	<u>Gravel</u>	☒	
	<u>96</u>	<u>120</u>	<u>SAND & Gravel</u>	☒	
	<u>120</u>	<u>160</u>	<u>Fine Sand</u>	☒	
	<u>160</u>	<u>177</u>	<u>SAND & clay</u>	☒	
	<u>177</u>	<u>190</u>	<u>Coarse SAND</u>	☒	

RECEIVED

JUN 30 1969

Department of Water Resources
Western Regional Office

JUN 20 1991

10.

Work started 5 May 89 finished 13 May 89

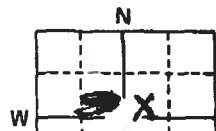
11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name DENNIS Phipps Firm No. 332

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

PD #100.00 drill
 permit fee
 1006797