

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12592

Exam Date: 11/2/2012

1. Current Owner: WOODENHEAD TRUST
6785 W HOLLILYNN DR
BOISE ID 83709
(208)562-8811
2. Accompanied by: Skinner (Skip) E. Anderson II
Phone No: Same
Address: Same
Relationship to Permit Holder: Home Owner

3. **SOURCE** **TRIBUTARY**
GROUND WATER N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: 63-11843

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

GROUND WATER NE1/4SW1/4 Sec. 7, Twp 02N, Rge 02E, B.M.
ADA County

Method of Determination: GPS Location N43° 31.270' W116° 16.129' Garmin model GPSmap 76 Datum NAD 83

2. 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	
02N	02E	7									1.5	1.0							2.5
												L 3							

Total Acres: 2.5

Method of Determination: Bing (2011) Aerial Photography w/ field verification.

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

<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>
WC Well ID 302904	Franklin Electric	5	unknown	Jacuzzi	Model S425-270 – unknown discharge size

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

D. FLOW MEASUREMENTS1. **Measurement Equipment**

<u>Equipment</u>	<u>Type</u>	<u>Make/Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
No physical measurement @ exam	N/A	N/A	N/A	N/A	N/A

See Flow Calculations Section below for Theoretical HP Equation & Sprinkler System Flow Estimations.

2. Measurements: Piping from well not suitable (buried) for polysonic measurement.

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method: Theoretical HP Equation:

$$HP = 5$$

$$PSI = 60 \text{ (est. closed pipeline irrigation system)}$$

$$Z = 319 \text{ ft [static @ 309 ft – est. approximately 10 ft below static for smaller system]}$$

$$Q = (8.8 \times 0.7 \times HP) / [Z + (2.31 \times PSI)] = (8.8 \times 0.7 \times 5) / [319 + (2.31 \times 60)] = \mathbf{0.07 \text{ cfs}}$$
 est. capacity of pumping system

Measured Method: Sprinkler System Estimation:

$$\# \text{ of lines @ one time} = 1$$

$$\# \text{ of sprinkler heads @ one time} = 10 \text{ heads}$$

$$\text{Type of sprinklers} = \text{unknown brand oscillating sprinklers}$$

$$\text{Nozzle size} = 1/8" \text{ rated for } 3.62 \text{ gpm @ } 60 \text{ psi (Per Appendix A Exhibit 9 Field Exam handbook)}$$

$$Q = \# \text{ heads} \times \text{gpm} = 10 \times 3.62 \text{ gpm} = 36.20 \text{ gpm} = \mathbf{0.08 \text{ cfs}}$$
 est. discharge from sprinklers

Theoretical HP Equation est. capacity of pumping system = **0.07 cfs**

Diversion rate based on sprinklers @ 60 psi = **0.08 cfs**

Permitted Rate = **0.19 cfs**

Beneficial Use Limit = **0.08 cfs** (irrigation 2.5 ac @ 0.03 cfs/ac) – domestic use permitted authorized via overlapping right

Proof of Beneficial Use fee paid = \$50.00 = up to **0.20 cfs**

Recommend Beneficial Use Limit Rate = 0.08 cfs

Highest rate allowable based on sprinkler system estimation and beneficial use limit 0.08 cfs recommended. System capacity estimated to be ~ 0.08 cfs. Overlapping domestic use right 63-11843 authorizes diversion of 0.04 cfs 1.2 afa for internal and external – up to ½ acre irrigation – uses. Condition limiting rights 63-11843 and 63-12592 to 0.08 cfs total applicable based on system capacity. Condition should not include volume combo limit considering system capable of producing enough volume for both rights and there is no POU overlap (3.0 acres irrigation found – 0.5 acres under 63-11843 + 2.5 acres under 63-12592).

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.5 \text{ ac} \times 4.5 \text{ afa/ac} = 11.3 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 41.3 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 11.3 \text{ afa} < 41.3 \text{ afa} = \mathbf{\text{Recommend } 11.3 \text{ afa}}$$

2. Volume Calculations for Other Uses: No other uses recommended for licensing. Overlapping right 63-11843 domestic use (internal + external) from same well 1.2 afa volume -> system capable of diverting enough volume for both uses.

G. NARRATIVE/REMARKS/COMMENTS**SYSTEM DESCRIPTION:**

System consists of a 6 in dia well piped to sprinkler system consisting of ~ 15 stations, one line with a maximum of 10 sprinkler heads to each yard station (6 stations). Well also piped to home for in-house domestic use.

G. NARRATIVE/REMARKS/COMMENTS CONTINUED**IRRIGATION PRACTICES AND WELL USE:**

Owner uses well (POD) for internal domestic use and irrigation of approximately 3 acres. Irrigated area consists of lawn and vineyard. Large lawn area directly east of vineyard irrigated via six stations, each station containing maximum of 10 oscillating sprinkler heads with 1/8 in nozzles. Other nine stations of irrigation system are for vineyard drip system and pop up type sprinklers for remaining lawn areas around the house and areas adjacent to driveway. Trees around the small building/shed in far southeast portion and trees in far southwest portion of property are irrigated via a drip system run off a hose connection. Owner can only run one station of irrigation system at a time otherwise there is not enough water for internal domestic use.

OVERLAP:

Well serves as POD for 63-12592 and right 63-11843. Right 63-11843 authorizes diversion of 0.04 cfs 1.2 afa for internal and external domestic use. Owner irrigating approximately 3.0 acres total on property. Right 63-11843 authorizes external domestic use. Although 0.5 acres is not listed as a limit in conditions of right 63-11843, typically irrigation of up to 0.5 acres is allowed under domestic use. To avoid duplication and POU overlap, this right 63-12592 is being recommended for irrigation of the remaining 2.5 acres. Current system capable of producing ~ 0.08 cfs, based on flow estimations noted above. A diversion rate of 0.08 cfs is recommended for right 63-12592 based on system capacity estimates and beneficial use limit. Considering system capacity only ~ 0.08 cfs, this right 63-12592 should be conditioned that when used in combination with right 63-11843 the diversion rate shall not exceed 0.08 cfs. At 0.08 cfs, the system is capable of producing more than enough volume (41.3 afa) for both right 63-12592 (11.3 afa) and right 63-11843 (1.2 afa). Therefore, there should be no limiting condition placed on volume NOR number of acres irrigated (no POU overlap of acres) on right 63-12592. There are no other applicable overlapping rights associated with the POD and/or POU.

POU AMENDMENT:

Majority of vineyard and portion of lawn around home in the 40 ac-tract (Gov't Lot 3 - NWSW) west of the authorized POU 40 ac-tract (NESW). Licensing amendment needed to correct the POU legal description.

COMPLIANCE WITH PERMIT CONDITIONS:

To the best of my knowledge, owner has complied with all permit conditions.

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	03/01 to 11/15	0.08 CFS	11.3 AF
<u>Totals:</u>		0.08 CFS	11.3 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 Angela M. Ginn Date 11/26/2012
 Reviewer _____ Date _____

63-12592 Beneficial Use Field Report System Diagram & Map

R02E



2011 Aerial Photo

0 0.01 0.02 0.04 Miles

- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters



<http://www.glorerecords.blm.gov/lizardtech/iserv/getimage?cat=Plat&item=ID%5C08%5C0...> 8/21/2012

RECEIVED

JUL 30 1992

CORRECTED

-AG 11/26/2012

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED

AUG 06 1992

USE TYPEWRITER OR
BALLPOINT PEN

Department of Water Resources

WELL DRILLER'S REPORT

Department of Water Resources

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name LECERTUA, PAT
Address HOLLILYNN DR.
BOISE, ID
Drilling Permit No. 63-92-4-033
Water Right Permit No. _____

7. WATER LEVEL

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

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase ☐ Modification
☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)

8. WELL TEST DATA

☐ Pump ☐ Bailor ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
35	387	3

3. PROPOSED USE

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

9. LITHOLOGIC LOG

082519

Bore Diam.	Depth		Material	Water	
	From	To		Yes	No
12"	0	3	DIRT	NO	
9"	3	20	CEMENTED GRAVEL	NO	
6"	20	43	CEMENTED GRAVEL	NO	
6"	43	60	SANDSTONE	NO	
6"	60	80	CEMENTED GRAVEL	NO	
6"	80	85	SANDSTONE	NO	
6"	85	90	CEMENTED GRAVEL	NO	
6"	90	92	SANDSTONE	NO	
6"	92	95	CEMENTED GRAVEL	NO	
6"	95	100	SANDSTONE	NO	
6"	100	111	CLAY	NO	
6"	111	115	CEMENTED GRAVEL	NO	
6"	115	120	CLAY	NO	
6"	120	125	CEMENTED GRAVEL	NO	
6"	125	130	CEMENTED GRAVEL	NO	
6"	130	145	CEMENTED GRAVEL	NO	
6"	145	155	SANDSTONE	NO	
6"	155	160	CEMENTED GRAVEL	NO	
6"	160	195	SANDSTONE	NO	
6"	195	225	CEMENTED GRAVEL	NO	
6"	225	240	SANDSTONE	NO	
6"	240	280	CEMENTED GRAVEL	NO	
6"	280	290	SANDSTONE	NO	
6"	290	305	CEMENTED GRAVEL	NO	
6"	305	315	SAND	NO	
6"	315	320	GRAVEL	YES	
6"	320	333	SANDSTONE	NO	
6"	333	336	CLAY	NO	
6"	336	340	SAND	NO	
6"	340	345	SANDSTONE	NO	
6"	345	360	HEAVING SAND/GRAV	YES	
6"	360	365	SAND	NO	
6"	365	390	CLAY	NO	
6"	390	430	CEMENTED GRAVEL	YES	
6"	430	439	CLAY	NO	
6"	439	442	SAND	YES	

4. METHOD DRILLED

☒ Rotary ☐ Air ☐ Auger ☐ Reverse rotary
☐ Cable ☐ Mud ☐ Other _____
(backhoe, hydraulic, etc.)

5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other _____
250 thickness 8 diameter 2 from 440
____ inches ____ inches + ____ feet ____ feet
____ inches ____ inches ____ feet ____ feet
____ inches ____ inches ____ feet ____ feet
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation? ____ inches by ____ inches
Number ____ From ____ To ____
____ perforations ____ feet ____ feet
____ perforations ____ feet ____ feet
____ perforations ____ feet ____ feet
Well screen installed? ☐ Yes ☒ No
Manufacturer _____ Type _____
Top Packer or Headpipe _____
Bottom of Tailpipe _____

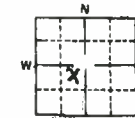
Diameter ____ Slot size ____ Set from ____ feet to ____ feet
Diameter ____ Slot size ____ Set from ____ feet to ____ feet
Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____
Placed from ____ feet to ____ feet

Surface seal depth 20 Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit
☐ Temp. surface casing ☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded
☐ Solvent Weld ☐ Cemented between strata

Describe access port SANITARY WELL CAP

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name HOLLY ESTATES
Lot No. 5 Block No. 2
County ADA

Address of Well Site _____
(give at least name of road)
NE SW 1/4 Sec. 7 T. 2 S. 2 E. 2 W. 2

11. DRILLER'S CERTIFICATION

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

Driller Name Can-Ada Well Drilling Firm No. 304
Address 4250 Murphy Road Date _____
Kuna, Idaho
Signed by Drilling Supervisor _____
and _____
(Operator) _____
(If different than the Drilling Supervisor)

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>LECERTUA, PAT</u> Address <u>HOLLILYNN DR.</u> <u>BOISE, ID</u> Drilling Permit No. <u>63-92-W-033</u> Water Right Permit No. _____	7. WATER LEVEL Static water level <u>309</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>59</u> °F. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																																																																																																																																																																						
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6"	195	225	CEMENTED GRAVEL	NO																																																																																																																																																																																																																			
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6"	240	280	CEMENTED GRAVEL	NO																																																																																																																																																																																																																			
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6"	390	393	COURSE SAND	YES																																																																																																																																																																																																																			
4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	10. WORK STARTED Work started <u>1/25/92</u> finished <u>2/8/92</u>																																																																																																																																																																																																																						
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ Diameter _____ From _____ To _____ 250 inches 6 inches 1 feet 390 feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth _____ Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>SANITARY WELL CAP</u>	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Can-Ada Well Drilling</u> Firm No. <u>304</u> Address <u>4250 Murphy Road</u> Date <u>2/24/92</u> Signed by (Firm Official) <u>Earl Skinner</u> and <u>[Signature]</u> (Operator) <u>[Signature]</u>																																																																																																																																																																																																																						
6. LOCATION OF WELL Sketch map location must agree with written location. N W E S Subdivision Name <u>HOLLY ESTATES</u> Lot No. <u>5</u> Block No. _____ County <u>ADA</u> <u>NW</u> ¼ <u>SW</u> ¼ Sec. <u>7</u> T. <u>2</u> N. <u>2</u> E. <u>2</u> W. <u>2</u>	NOTE: This log is in incorrect depth 442' is correct depth.																																																																																																																																																																																																																						

USE ADDITIONAL SHEETS IF NECESSARY ~ FORWARD THE WHITE COPY TO THE DEPARTMENT

63-12592 Beneficial Use Field Report Photos



63-12592 Exam 11/2/2012: POD well in backyard facing south.



63-12592 Exam 11/2/2012: Portion of POU lawn, vineyard, and large irrigated grassy area in front of house. Photo taken from house driveway facing northwest.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

November 27, 2012

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

WOODENHEAD TRUST
6785 W HOLLILYNN DR
BOISE ID 83709

RE: Water Right Permit No. 63-12592

Dear Permit Holders:

We acknowledge receipt of the assignment of permit of this water right. Our records have been changed to reflect the assignment as submitted.

The Department of Water Resources is reviewing this permit prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict the water use as it was actually developed.

Based on the examiner's report, the place of use was developed differently than described on your permit. The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at (208)334-2190.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosures – Amendment & Layout of Proposed License



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

October 16, 2012

Skip Anderson
6785 W. Hollilynn Dr.
Boise, ID 83709

RE: Scheduling Field Exam for Water Right Permit No. 63-12592

Dear Mr. Anderson:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the week of October 22, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal conditions during the examination. The permit authorizes use of ground water for domestic use and irrigation of up to 5 acres.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by October 22, 2012.** Realizing irrigation systems may be winterized soon, if there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

Angela M. Grimm, P.G.
Water Resource Agent, Sr.