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APR 04 2012

DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

APR 02 2012

WATER RESOURCES
WESTERN REGION

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. 63-33324

1. Owner Shelley Williamson Phone No. 208-867-1095
Current address 11458 West Darkwood Street, Star, ID 83669
2. Examiner's name Terry Scanlan, P.E. (Examiner No. 12-129) EXAM DATE March 29, 2012
3. Accompanied by Shelley Williamson Email cowgirlidaho@live.com
Address _____
Relationship to permit holder Same Phone No. _____
4. Source Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use City of Kuna municipal water rights, 63-9283 (see narrative)
2. Other water rights with the same source and point of diversion None

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
		NW	SW	NW	27	2N	1E	Ada	Exam, 2011 Photo

2. Place(s) of Use: Method of determination Exam, 2011 Photo

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2N	1E	27							3.9										3.9

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
	Franklin (control)	5	submersible	Berkeley	2-inch

*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
Bucket and stop watch						

2. **Measurements:** _____

Flow was measured at a yard hydrant (33 gpm) while two pasture sprinkler valves (12 heads total, with flow rate measured at 3 gpm each, 36 gpm total) were operating. Sprinkler rates were measured by diverting flow from heads through a tube into a 5-gallon bucket. Total flow 69 gpm (0.15 cfs). Pressure at well was 52 psi (installed gage).

E. NARRATIVE/REMARKS/COMMENTS

A 6-inch well equipped with a 5-hp submersible pump set at 250 feet on 2-inch pipe supplies irrigation water to 3.9 acres through a pressurized irrigation system. The well and pump also provide internal domestic water to one home.

The irrigation system consists of (1) a buried automatic sprinkler system in pasture consisting of 6 zones of 6 spray rotor heads per zone, (2) a buried automatic sprinkler system for landscape irrigation around the house, and (3) hoses and portable sprinklers for irrigation of two paddocks.

Due to sufficient pump capacity, flow rate has been recommended at 0.025 cfs/acre, which is within the permit parameters and less than the 0.03 cfs/acre amount allowed by the Department for systems that irrigate less than five acres.

Kuna municipal water rights and Desert View Estates water right 63-9283 are also used in the SWNW, Section 27, on other properties and are not applicable to this permit.

Note that measured flow rate (Section D.2.) exceeds theoretical flow rate (Section F). This suggests that either (1) a portion of the measured flow may have been from hydropneumatic tank storage or (2) the installed pressure gage is inaccurate, or both. Theoretical calculation of flow rate for a 5 hp pump at lower discharge pressure (40 psi) is 48 gpm (0.11 cfs)

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?

Authorized water bearing zone: 190 to 265 feet.

Developed water bearing zone: 253 to 258 feet.

ATTACHMENT A

PERMIT RECORD AND PROOF OF BENEFICIAL USE

IDAHO DEPARTMENT OF WATER RESOURCES

Water Permit Report 63-33324

WATER RIGHT NUMBER: 63-33324

<u>Owner Type</u>	<u>Name and Address</u>
Original Owner	JAMES G COLVIN TRUST PO BOX 4775 BOISE, ID 83711-4775 (208)362-3229
Current Owner	SHELLEY J WILLIAMSON 13100 S CLOVERDALE RD KUNA, ID 83634 (208)884-7574

Priority Date: 11/04/1993

Basis:

Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	03/01 to 11/15	0.100 CFS	
	<u>Total Diversion:</u>	0.100 CFS	

Location of Point(s) of Diversion

GROUND WATER	NW1/4SW1/4NW1/4	Sec. 27, Twp 02N, Rge 01E, B.M.
ADA County		

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	01E	27							5.0										5.0

Total Acres: 5

Conditions of Approval:

1. 004 This right does not grant any right-of-way or easement across the land of another.
2. 26A Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
3. 01M After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
4. Water bearing zone to be appropriated is 190 to 265 feet.

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Water Permit Report 63-33324

5. 121 The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.
6. WB7 This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 45 af at the field headgate for the lands above.
7. 046 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
8. R61 This right when combined with all other rights shall provide no more than 4.5 afa per acre at the field headgate for irrigation of the lands above.

Remarks:Comments:

1. scurtis 1/11/2010 11:20:22 AM POD
Comment: Updated Shape

2. scurtis 1/11/2010 11:21:44 AM POU
Comment: Updated Shape

3. jhersley 8/12/2008 split right
Comment: This water permit is the result of split from 63-12075 due to an assignment of permit that was completed in 2008.

Dates and Other Information:

Permit Proof Due Date: 5/1/2012
Permit Proof Made Date:
Permit Approved Date: 5/15/2008
Permit Moratorium Expiration Date:
Enlargement Use Priority Date:
Enlargement Statute Priority Date:
Field Exam Date:
Date Sent to State Office:
Date Received at State Office:
State or Federal:
Owner Name Connector:
Water District Number:
Generic Max Rate Per Acre: 0.02
Generic Max Volume Per Acre: 4.5
Swan Falls Trust or Nontrust:
Swan Falls Dismissed:
DLE Act Number:
Carey Act Number:
Mitigation Plan: False

Combined Use Limits:Water Supply Bank:

ATTACHMENT B
WELL DRILLERS' REPORT

Use Typewriter
or
Ball Point Pen

1. DRILLING PERMIT NO. 63 - 93 - 1145 - 000

Other IDWR No. WR-63-12075

2. OWNER:

Name JAMES COLVIN

Address **P.O. BOX 4775**

City **BOISE** State ID Zip **83711-4775**

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.


 T. 2 North ☒ or South ☐
 E. R. 1 East ☒ or West ☐
 Sec. 27 NW 1/4 SW 1/4 NW 1/4
 Gov't Lot _____ County ADA

Address of Well Site DESERT AND CLOVERDALE

(Give at least Direction + Distance to Road or Landmark)

Lot No. _____ Block No. _____ Subd. Name _____

4. PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
BENTONITE	0	40	5sacks	overbore

Was drive shoe seal tested? ☒ YES ☐ NO How? CLEAR

8.-CASING/LINER:

Diameter	From	To	Gauge	Casting	Liner	Steel	Plastic	Welded	Threaded
6"	+3	253	.250			☒	☐	☒	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes 253'

Top Packer or Headpipe 247' Bottom Tailpipe 258'

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Type 304 Material STAINLESS

From	To	Slot Size	Number	Diameter	Taper Pipe Size	Casting	Line
253	258	.020		6	5	☐	☐
						☐	☐
						☐	☐
						☐	☐

10. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time
100			

Temperature of water _____ Was a water analysis done? Yes ☐ No ☐

By whom?

Water Quality (odor, etc.) CLEAR

Bottom Hole Temperature

11. STATIC WATER LEVEL:

195 ft. below surface Depth artesian flow found

Artesian pressure _____ lb. Describe access port _____

Describe Controlling Devices:_____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

13. DRILLER'S CERTIFICATION

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

Firm Name HIDDLESTON DRILLING AND PUMP CO. Firm No. 35

Firm Official Mark A. Wilson Date 1-20-94

and
Supervisor or Operator Eddie Miller Date 1-14-94

(Sign once if Firm Official & Operator)

ATTACHMENT C
TOPO MAP AND 2011 AERIAL PHOTO

T2N R1E
Section 27

2011 Photo

Cloverdale Rd

Desert View Rd

West
Paddock

East
Paddock

Pasture

Landscape

House

Legend

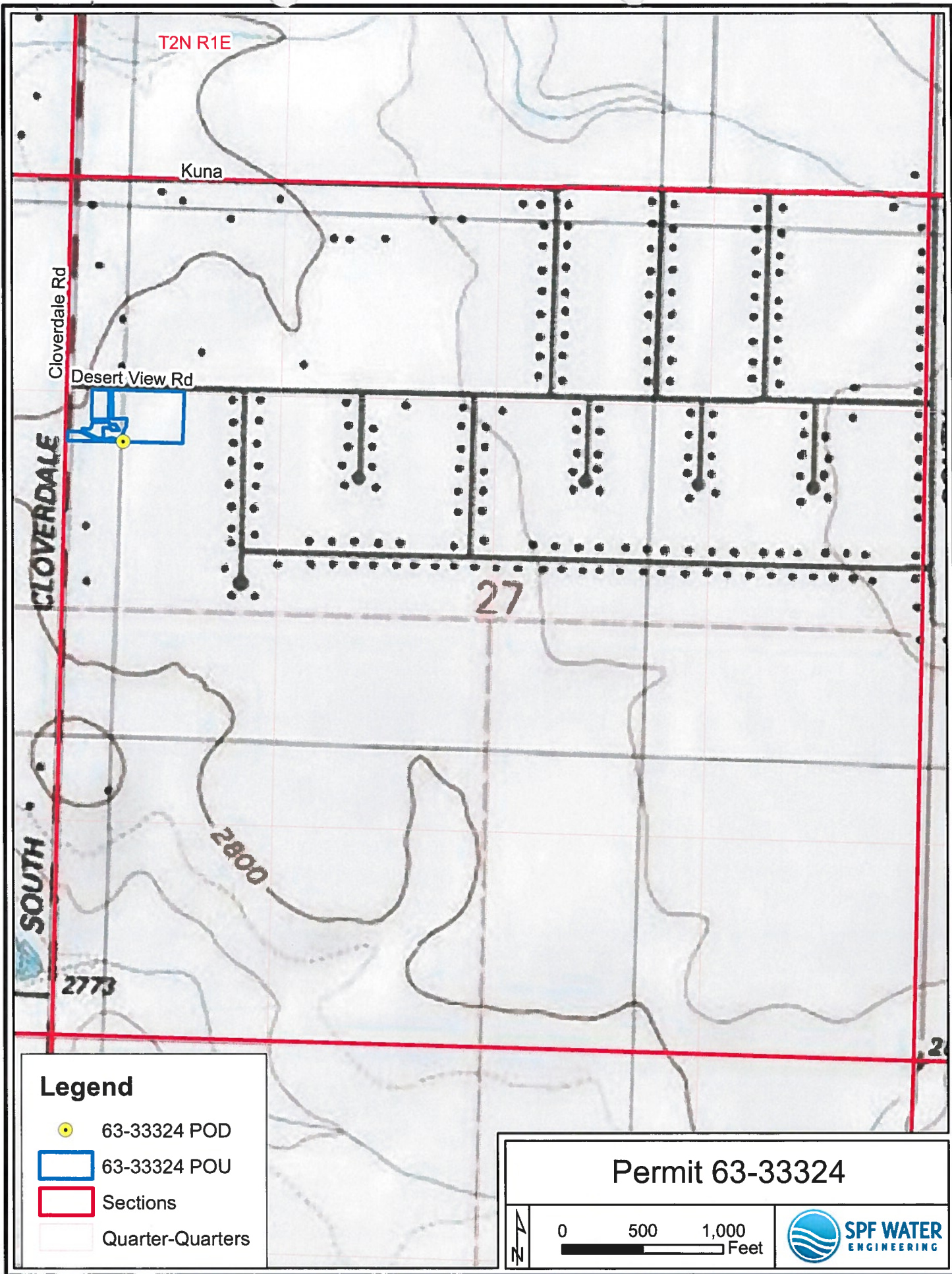
-  63-33324 POD
-  63-33324 POU
-  Buried Distribution Line
-  Hydrants
-  Sprinkler Valves
-  Pasture Sprinkler Zones
-  Sections
-  Quarter-Quarters

Permit 63-33324

N
27

0 80 160
Feet





ATTACHMENT D

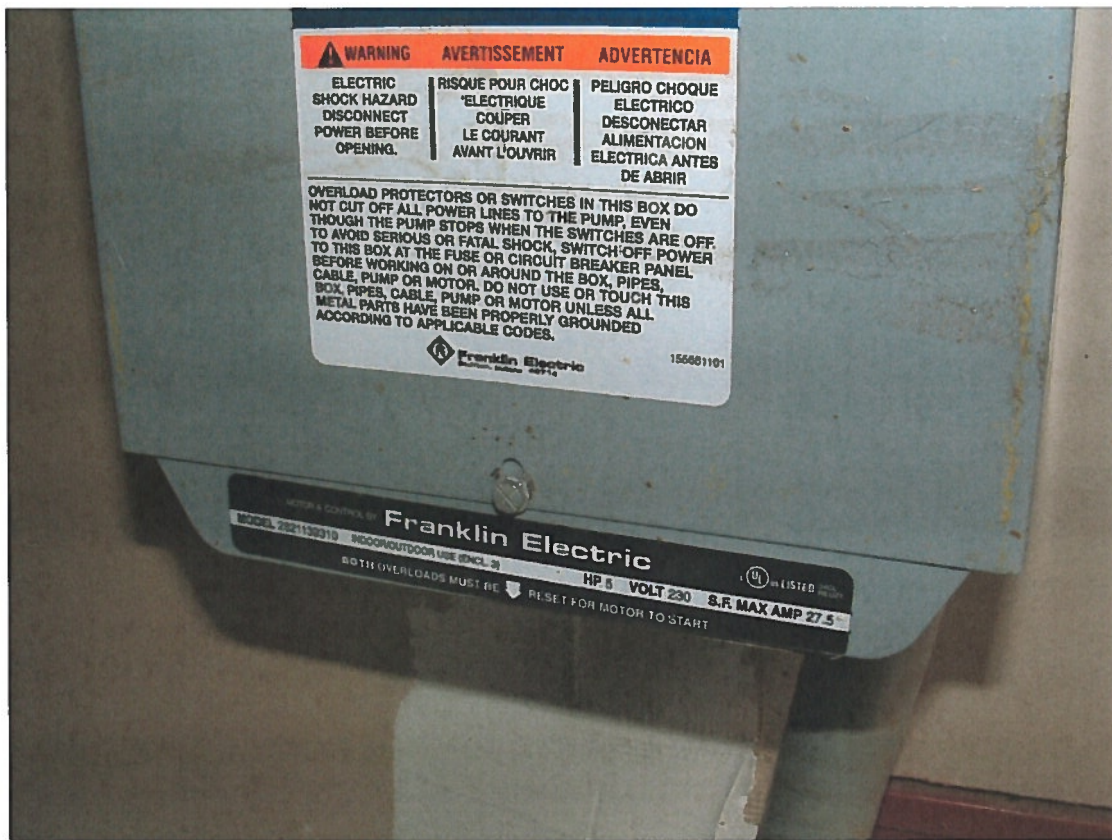
PHOTOS



Point of diversion - well head in shelter on south side of well house



Well house (left) and well shelter (right)



5-hp, 230 volt control box for submersible pump



Place of use – sprinklers operating in pasture



Place of use - east paddock



Place of use – west paddock



Place of use – landscape west of house

Well head in shelter on south side of well house



Pasture sprinkler valves