

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

SEP 08 2017

DEPARTMENT OF
WATER RESOURCES

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. 63-316831. Owner Roger and Vicki CantlonPhone No. 208-362-4295Current address 8401 South Cole Road, Boise, ID 837092. Examiner's name Terry Scanlan, P.E., P.G. CWRE #129EXAM DATE September 5, 20173. Accompanied by Roger and Vicki CantlonEmail Roger@cantlon.org Vicki@cantlon.orgAddress 8401 South Cole Road, Boise, ID 83709Relationship to permit holder Permit HolderPhone No. 208-362-42954. Source Ground Water

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use 63-10526, 63-316842. Other water rights with the same source and point of diversion 63-10526, 63-31684**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
8-inch		SE	SE	NE	12	2N	1E	Ada	Exam, 2013 Aerial Photo

2. Place(s) of Use:

Method of determination Exam, 2013 aerial 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	12				10													10

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
8-inch Well Pump 1	unknown	1.5	Submersible	unknown	unknown
8-inch Well Pump 2	Franklin	7.5	Submersible	unknown	unknown

*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
32 gallon trash can & stop watch						

2. **Measurements:** _____

32-gallon container was filled from an irrigation outlet with residual backpressure of 45 psi measured at a hydrant at the well. Times to fill were 14.29, 14.89, and 14.85 seconds for an average of 14.66 seconds. Flow rate = 131 gpm.

E. NARRATIVE/REMARKS/COMMENTS

An 8-inch well equipped with two submersible pumps (1.5 hp and a 7.5 hp) supplies water to 10 acres that were irrigated during the permit development period, which ended May 30, 2013, when proof of beneficial use was filed.

Supporting affidavits from the permit holders are provided in Attachment D for approximately 4.4 acres irrigation recommended north of the arena area since it appears questionable on the 2013 aerial photo included in Attachment A.

Permit holder stated that there is a 2.5-inch buried water main that supplies the 4.4 acres north of the arena. A Kifco Water Reel traveling sprinkler was used to irrigate that area. The remainder of the place of use is irrigated using solid set buried sprinklers. Permit holder did not have a diagram of the sprinkler piping.

A 6-inch well at the house was the former point of diversion for domestic license 63-10526; the 6" well was not in use at the time of the field exam due to sand production. The 8-inch well is now supplying water to the home under license 63-10526.

Overlapping rights: Two wells are also authorized under permit 63-31684 for 20 acres of irrigation, stockwater storage, wildlife storage, diversion to storage, and domestic uses within the same 40-acre tract. The 8-inch well supplies domestic water to one home on the property under water right 63-10526. No other water rights are used.

Exam Attachments

Attachment A: Field Exam Map

Attachment B: System Components and Diagrams

Attachment C: Additional Information

Attachment D: Exam Photos

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?

Although no longer required since the Basin 63 administrative hold has been lifted, 10 acres of mitigation water was secured and abandoned under water right 63-8796 as verified by the Department in a memorandum dated 5/26/2005 included in Attachment D.

The 8-inch well was completed with steel casing to 223 feet, with a stainless steel screen from 224 to 243 feet.

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

Volumetric - 32 gallons in 14.66 seconds = 130 gpm (0.29 cfs) at 45 psi

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 10 \times 4.5 = 45$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.20 \times 260 \times 1.9835 = 103.1$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 45$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	3/1	11/15	0.20 cfs	45 afa
Totals:			0.20 cfs	45 afa

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☐ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature

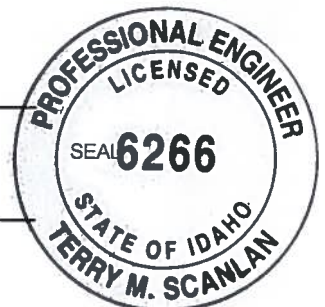


Date

9/7/2017

Reviewer

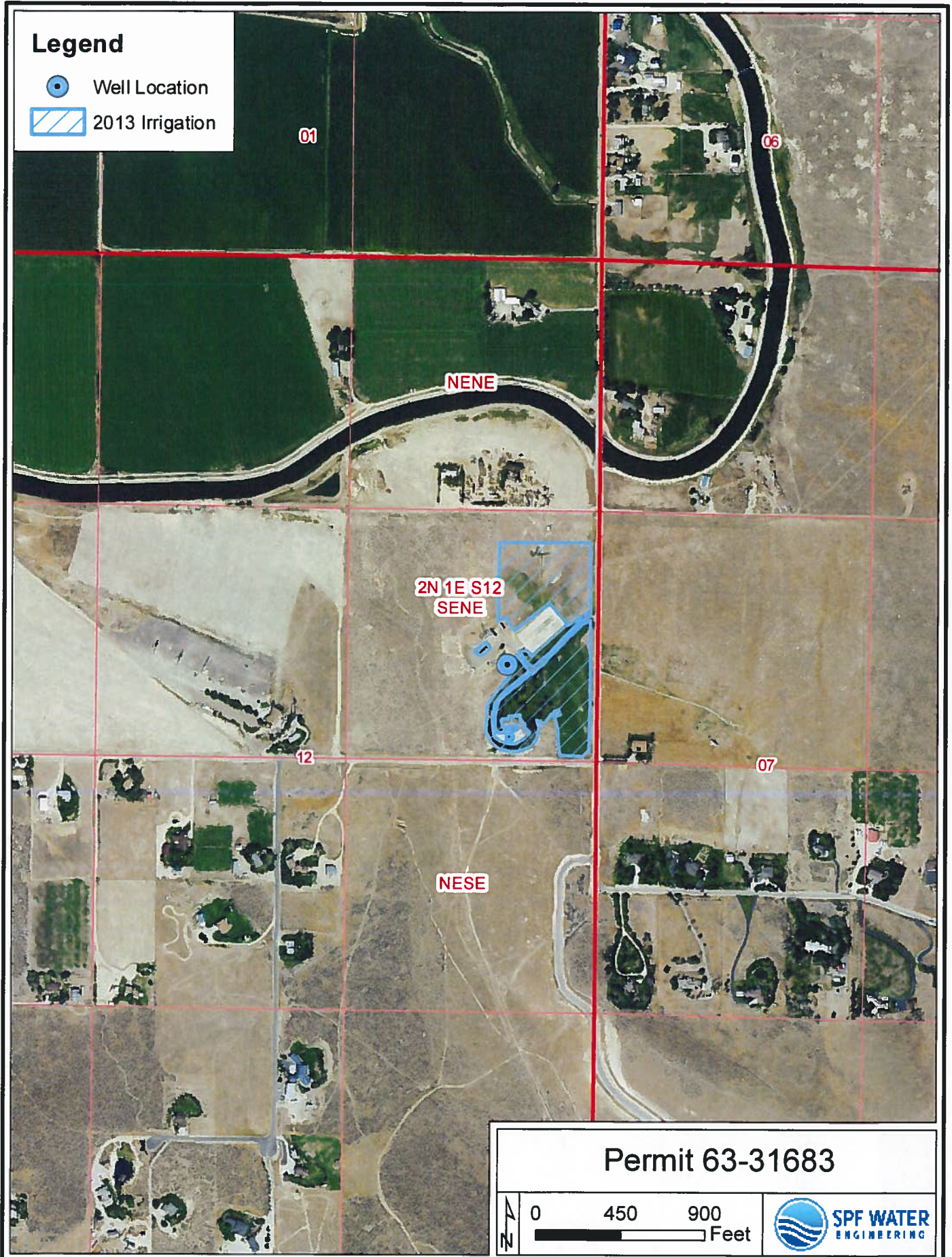
Date



Attachment A
Field Exam Maps

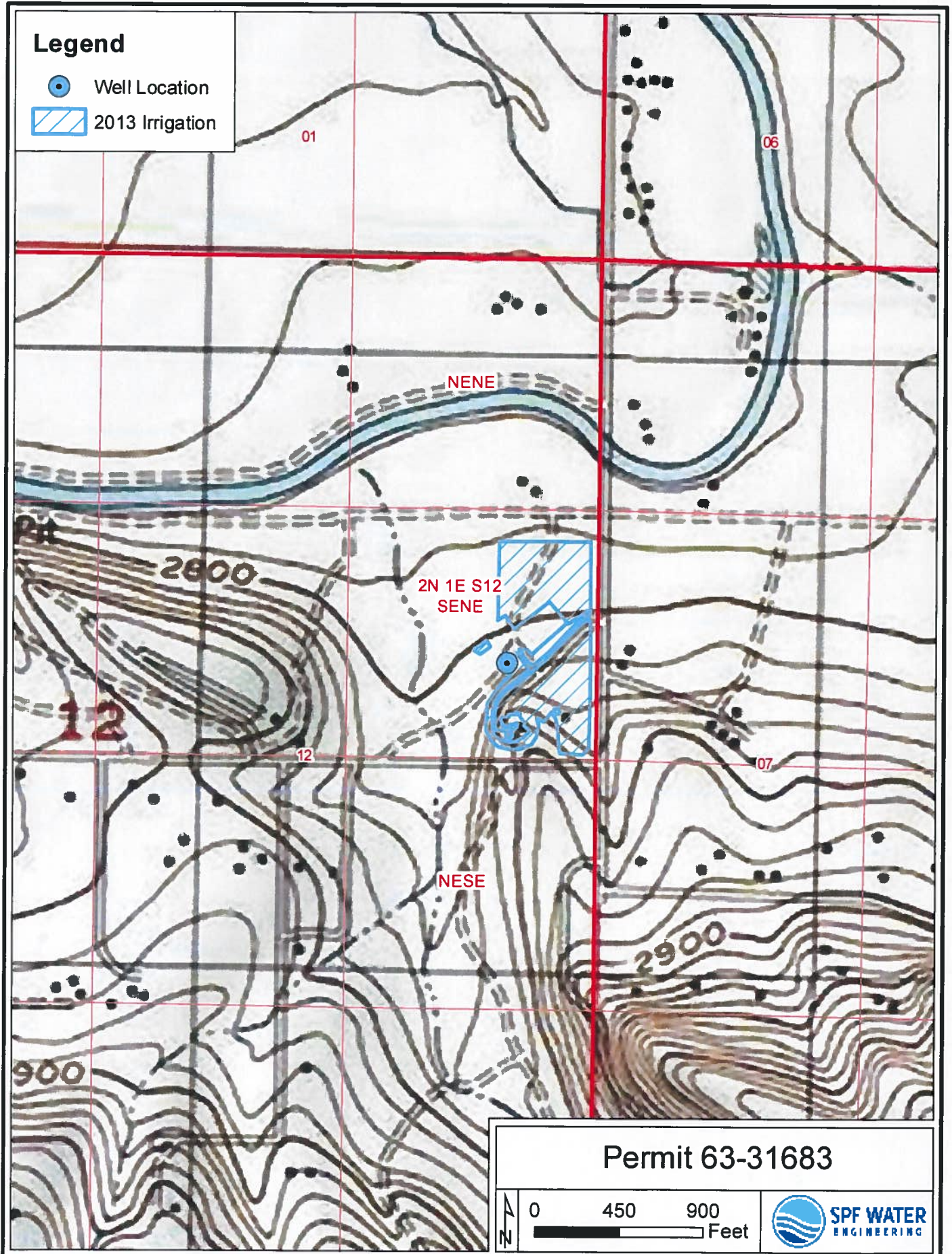
Legend

-  Well Location
-  2013 Irrigation



Legend

-  Well Location
-  2013 Irrigation



Permit 63-31683

0 450 900
Feet



Attachment B
System Components and Diagrams

Legend

- Well Location
- 2013 Irrigation



Permit 63-31683



0 125 250 Feet



SPF WATER
ENGINEERING

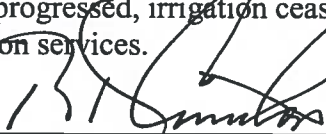
Attachment C
Additional Information

IDWR State Office
PO Box 83720
Boise, ID 83720-0098

Re: Developed Irrigation; Permit 63-31683

To Whom It May Concern:

We, Roger and Vicki Cantlon, are owners of permit 63-31683 and can attest that we used a portable sprinkler system to irrigate approximately 4.4 acres pasture north of our coral in May, 2013 as shown on the 2013 aerial photo included in Attachment A. We heavily grazed this ground with goats in spring and early summer of 2013. As the summer season progressed, irrigation ceased as the goats were relocated for weed and fire protection services.

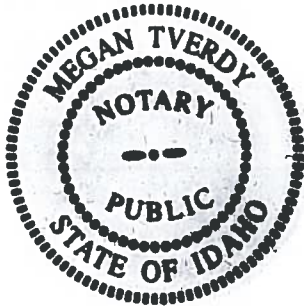


Roger Cantlon

9/5/17
Date

State of Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 5th day of September, 2017




Notary Public

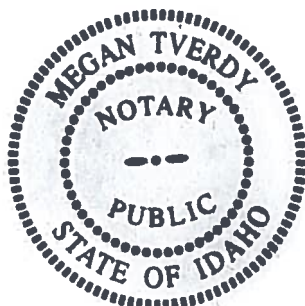
Residing at Boise, Idaho
My Commission Expires 6/25/19


Vicki Cantlon

9/05/2017
Date

State of Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 5th day of September, 2017




Notary Public

Residing at Boise, Idaho
My Commission Expires 6/25/19

MEMORANDUM

DATE: May 26, 2005

TO: Water Right File 63-31683

FROM: Shelley W. Keen *SWK*

RE: Mitigation

On April 18, 2005, IDWR received notice in the form of affidavits from Vicki Cantlon and Roger Cantlon that they have abandoned the required portion of Water Right 63-8796 as mitigation for the use of water under Permit 63-31683. The Cantlons have also submitted an ownership change notice of their portion of Water Right 63-8796, but the Adjudication Bureau staff at Western Region have not processed it yet. I am forwarding the original affidavits from the Cantlons to Western Region so that they can be processed in conjunction with the ownership change notice.

John M. Marshall
GIVENS PURSLEY LLP
601 W. Bannock Street
P.O. Box 2720
Boise, ID 83701-2720
Telephone: (208) 388-1200
Fax: (208) 388-1300

Attorneys for Roger and Vicki Cantlon

BEFORE THE IDAHO DEPARTMENT OF WATER RESOURCES

IN THE MATTER OF PERMIT TO
APPROPRIATE WATER NO. 63-31683

AFFIDAVIT OF VICKI CANTLON

STATE OF IDAHO)
) ss.
County of Ada)

VICKI CANTLON, being first duly sworn upon oath, deposes and says as follows:

1. I jointly own Permit to Appropriate Water No. 63-31683 with my husband Roger Cantlon. Condition No. 6 of Permit No. 63-31683 requires that I submit a Notice of Change of Water Right Ownership for the portion of water right 63-8796 I own along with a notarized affidavit stating I will no longer divert 0.15 cfs and 45 AFY pursuant right no. 63-8796.

2. On or about August 18, 2003, my attorney, John M. Marshall of the law firm Givens Pursley LLP, filed a Notice of Change of Ownership for right no. 63-8796 demonstrating that Roger Cantlon and I jointly purchased a 0.15 cfs and 45 AFY portion of right no. 63-8796.

3. I am filing this Affidavit to ensure I am in compliance with the conditions of Permit No. 63-31683.

4. As required by condition no. 6 of Permit No. 63-31683, I affirm that I have permanently abandoned the use of the 0.15 cfs and 45 AFY portion of right 63-8796 as mitigation for the diversion authorized by Permit No. 63-31683. In permanently abandoning this portion of right 63-8796, however, I do not waive my right to assert the 1977 priority date associated with right no. 63-8796 protects my right to divert under this same priority under Permit No. 63-31683.

DATED this 11th day of ^{April} ~~March~~ 2005.

Vicki Cantlon
Vicki Cantlon

SUBSCRIBE AND SWORN to before me this 11th day of ^{April} ~~March~~ 2005.



Elizabeth Hauer-Kilian
NOTARY PUBLIC FOR IDAHO
Residing at: Boise
My Commission Expires: 1-21-06

Attorneys for Roger and Vicki Cantlon

BEFORE THE IDAHO DEPARTMENT OF WATER RESOURCES

**AFFIDAVIT OF ROGER
CANTLON**

ROGER CANTLON, being first duly sworn upon oath, deposes and says as follows:

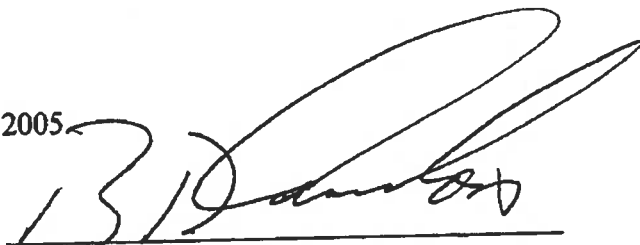
1. I jointly own Permit to Appropriate Water No. 63-31683 with my wife Vicki Cantlon. Condition No. 6 of Permit No. 63-31683 requires that I submit a Notice of Change of Water Right Ownership for the portion of water right 63-8796 I own along with a notarized affidavit stating I will no longer divert 0.15 cfs and 45 AFY pursuant right no. 63-8796.

2. On or about August 18, 2003, my attorney, John M. Marshall of the law firm Givens Pursley LLP, filed a Notice of Change of Ownership for right no. 63-8796 demonstrating that Vicki Cantlon and I jointly purchased a 0.15 cfs and 45 AFY portion of right no. 63-8796.

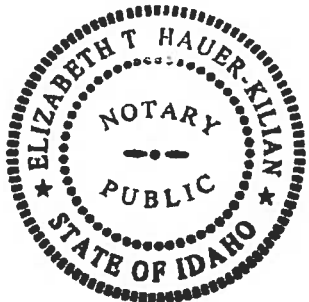
3. I am filing this Affidavit to ensure I am in compliance with the conditions of Permit No. 63-31683.

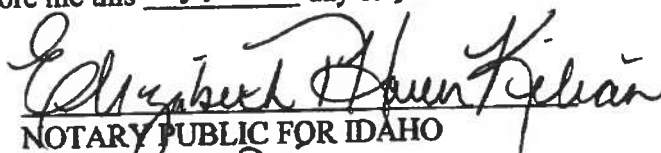
4. I affirm that I have permanently abandoned the use of the 0.15 cfs and 45 AFY portion of right 63-8796 as mitigation for the diversion authorized by Permit No. 63-31683. In permanently abandoning this portion of right 63-8796, however, I do not waive my right to assert the 1977 priority date associated with right no. 63-8796 protects my right to divert under the same priority under Permit No. 63-31683.

DATED this 11th day of ^{April} ~~March~~ 2005.

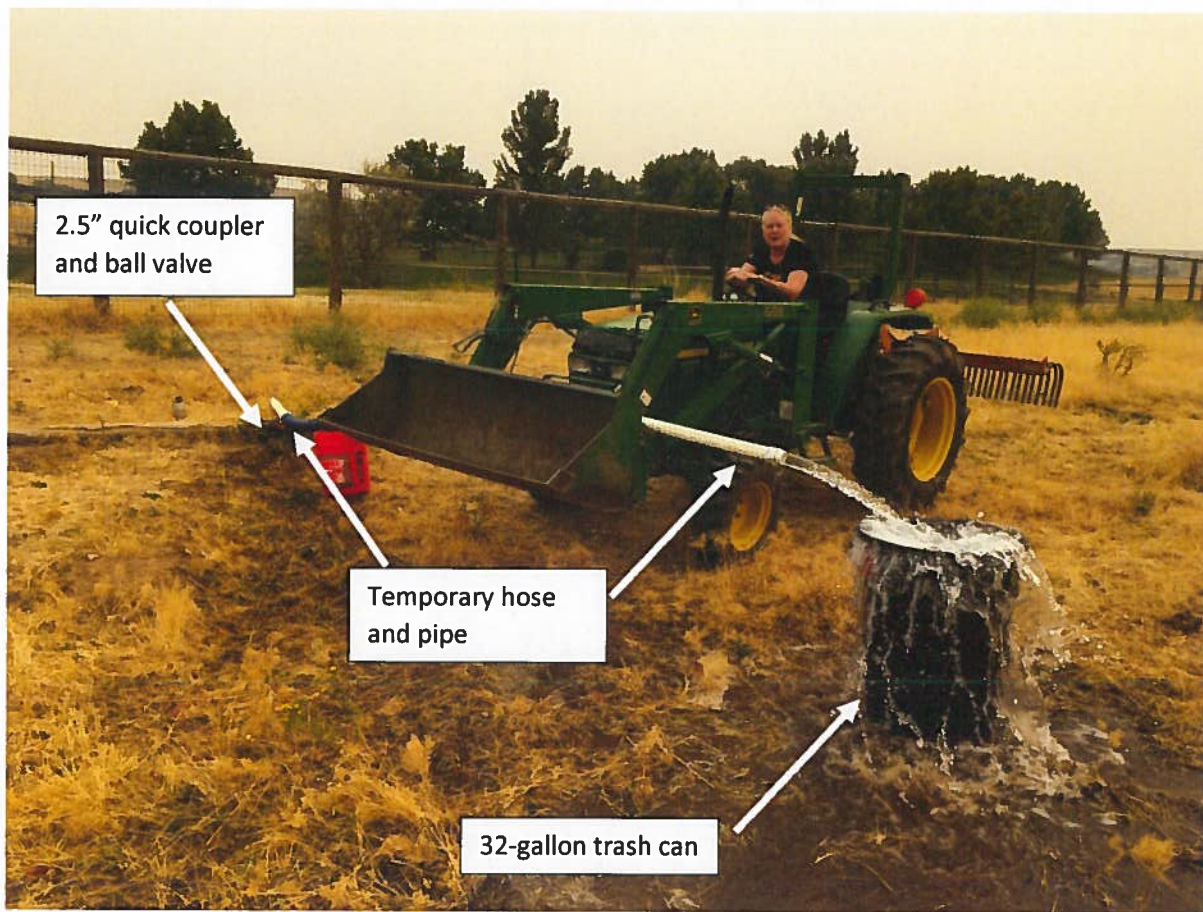

Roger Cantlon

SUBSCRIBE AND SWORN to before me this 11th day of ^{April} ~~March~~ 2005.




NOTARY PUBLIC FOR IDAHO
Residing at: Boise
My Commission Expires: 1-21-06

Attachment D
Exam Photos



Flow measurement.



32-gallon container for flow measurement



2.5-inch quick coupler and ball valve at north end of 4.4-acre pasture



Pump electrical controls



Traveling sprinkler for 4.4-acre pasture



8-inch well and yard hydrant for pressure measurement.



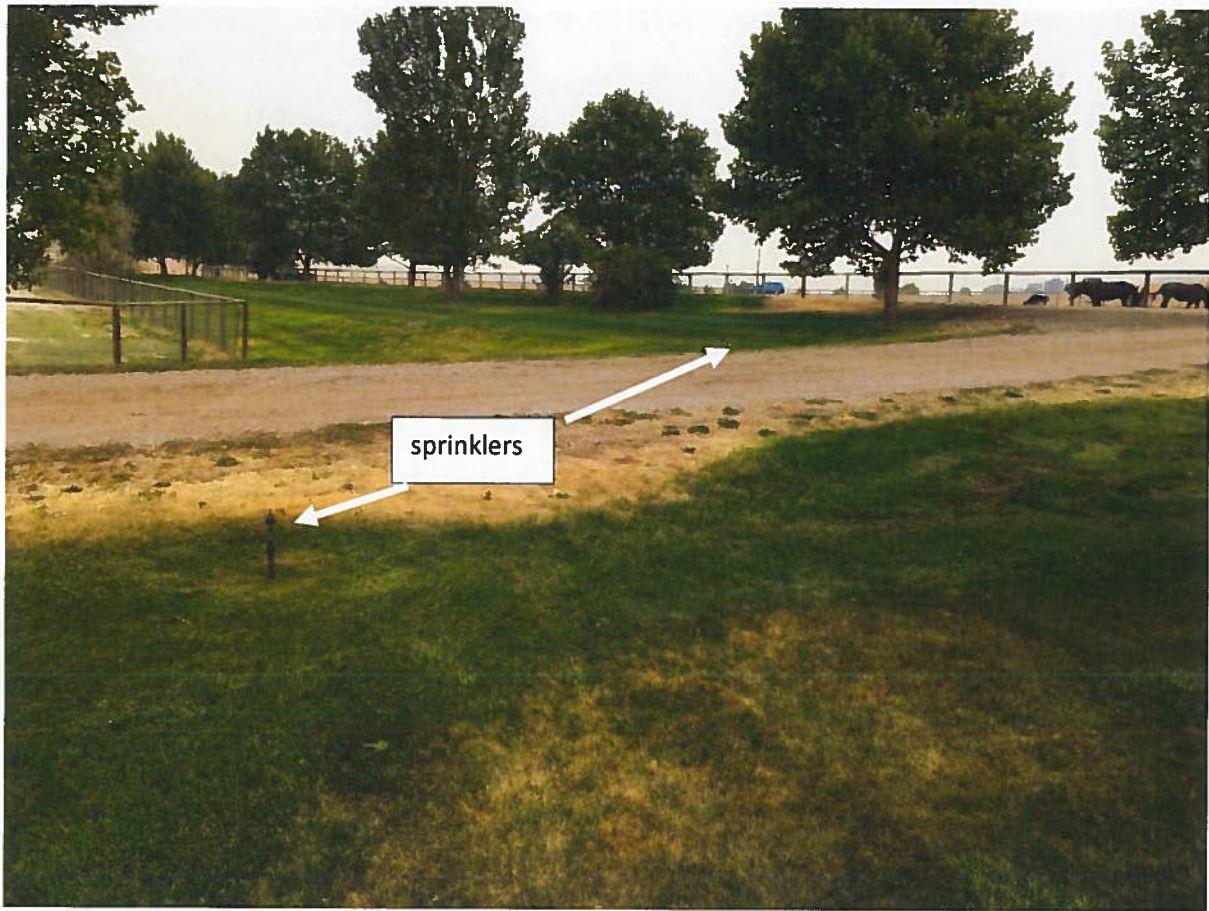
Place of use



Place of use with solid-set sprinkler



Place of use



Place of use