

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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MAR 17 2011

WATER RESOURCES
WESTERN REGION

A. GENERAL INFORMATION

Permit No. 65-22911

1. Owner Sabala Whitetail LLC Phone No. 208-630-0250

Current address 501 W. Lake St., McCall, ID 83638

2. Examiner's name Terry Scanlan, P.E. (Examiner No. 11-129) EXAM DATE July 30, 2010

3. Accompanied by Rick Mooney Email rmooney@whitetailclub.com

Address 501 W. Lake St., McCall, ID 83638

Relationship to permit holder Manager Phone No. 208-634-6429

4. Source Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use 65-13704 X CP

2. Other water rights with the same point of diversion 65-13751, 65-13704 X CP

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
2			SE	NE	12	18N	2E	Valley	Exam, 2009 Photo
7			SE	NE	12	18N	2E	Valley	Exam, 2009 Photo

2. Place(s) of Use: Method of determination Exam, 2009 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	
18N	3E	7							Lt 2										
									X										
									J		J	J		J					

X = Storage for fire protection, wildlife, aesthetic, and recreation use

J = Aesthetic Channel

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
Well 2	unknown	10	submersible	unknown	submersible
Well 7	unknown	15	submersible	unknown	submersible

*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
Well 2 Flowmeter	propeller	WaterSpecialties	ML-03	204014	4"	unknown
Well 7 Flowmeter	propeller	WaterSpecialties	ML-03	204012	4"	unknown

2. Measurements:

E. NARRATIVE/REMARKS/COMMENTS

Two wells (Wells 2 and 7) equipped with submersible pumps supply ground water to Annie Pond for storage uses, and aesthetic use in an open channel from Annie Pond to Whitetail Pond. Ground water is diverted from the wells through a pipeline that discharges into Annie Pond, then diverted through an open channel from Annie Pond to Whitetail Pond. Whitetail Pond has been recommended for licensing from the same wells under permits 65-13704A and 65-13751.

Permit 65-22911 lists a third well, also known as Well 1. This well was not recommended for licensing because it only supplies storage water to Betsey Lake under permits 65-13704B and 65-13738.

Calculations included in Attachment C indicate Annie Pond storage capacity of 27.6 af. Under this permit, Wells 2 and 7 supply storage water to Annie Pond for miscellaneous wildlife, fire protection, recreational fishing and swimming, and aesthetic uses. The open channel between Annie Pond and Whitetail Pond accounts for aesthetic use from storage. Fire protection includes use of the pond for dipping by helicopters or pumping by pumper trucks.

This right, when combined with 65-13704A and 65-13751, is limited to a 0.76 cfs diversion capacity.

A licensing amendment is recommended to add the SWNW, N1/2SW and SESW, S7, T18N, R3E for the place of use of the aesthetic channel. Live flow from the wells for aesthetic use in the channel has been recommended for licensing under permit 65-13704A.

- Attachment A: Copy of the permit and proof of beneficial use
- Attachment B: Copies of the well drillers reports and associated pump curves
- Attachment C: Storage capacity calculations for Annie Pond
- Attachment D: USGS topographic map and aerial photo
- Attachment E: Photos of the places of use and wells

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?

F. FLOW CALCULATIONS

Additional computation sheets attached

Measured Method:

Theoretical for Well 2

Friction loss to Annie Pond - 2000 feet @ 1.1'/100 + 20 feet miscellaneous = 42 feet

Pumping water level assumed at 100 feet; elevation difference of high point between well 2 to Annie Pond = 20 feet

Total lift = 162 feet ; theoretical rate = 10 hp x 70% efficiency x 3960 / 162 feet = 171 gpm = 0.38 cfs

Well 2: 170 gpm (pump curve) = 0.38 cfs

Well 7: 170 gpm (flow meter; 9/26/2006) = 0.38 cfs

Total diversion to storage rate = 0.38 + 0.38 = 0.76 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Total storage volume recommended for licensing from Wells 2 and 7 is

65-13704A: 65.6 af for Whitetail Pond

65-13751: 25 af for Whitetail Pond

65-22911: 27.6 af for Annie Pond

Ground water storage potential: 0.76 cfs x 365 x 1.9835 = 550.2 afa

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From	To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
Wildlife Storage	1/1	12/31		27.6 afa
Aesthetic & Recreation Storage	1/1	12/31		27.6 afa
Aesthetic from Storage	1/1	12/31		27.6 afa
Fire Protection Storage	1/1	12/31		27.6 afa
Diversion to Storage	1/1	12/31	0.76cfs	
Totals:			0.89 cfs	27.6 afa

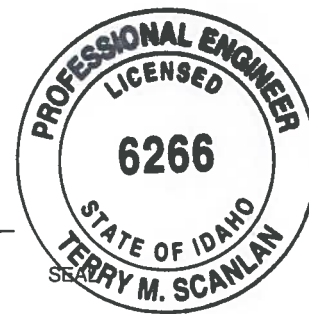
2. Recommended Amendments

- ☐ 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 Terry M. Scanlan Date 3-12-11

Reviewer _____ Date _____



ATTACHMENT A

PERMIT RECORD AND PROOF OF BENEFICIAL USE

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 65-22911

Priority: November 30, 2004

Maximum Diversion Rate: 1.00 CFS

This is to certify, that WHITETAIL A CLUB FOR ALL SEASONS LLC
ONE MARKET PLACE 33RD FLOOR
SAN DIEGO CA 92101

has applied for a permit to appropriate water from:

Source: GROUND WATER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
DIVERSION TO STORAGE	01/01 to 12/31	1.00 CFS	
FIRE PROTECTION STORAGE	01/01 to 12/31		60.0 AF
WILDLIFE STORAGE	01/01 to 12/31		60.0 AF
RECREATION STORAGE	01/01 to 12/31		60.0 AF
AESTHETIC FROM STORAGE	01/01 to 12/31		60.0 AF
AESTHETIC STORAGE	01/01 to 12/31		60.0 AF

LOCATION OF POINTS OF DIVERSION:

GROUND WATER	SE¼NE¼	Sec. 12, Twp 18N, Rge 02E, B.M., VALLEY County
GROUND WATER	NW¼SE¼	Sec. 12, Twp 18N, Rge 02E, B.M., VALLEY County
GROUND WATER	SE¼NE¼	Sec. 12, Twp 18N, Rge 02E, B.M., VALLEY County

PLACE OF USE: FIRE PROTECTION STORAGE, WILDLIFE STORAGE, RECREATION STORAGE AND AESTHETIC STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18N 02E 12				X													
18N 03E 7							X										
							L 2										

PLACE OF USE: AESTHETIC FROM STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18N 02E 12				X													
18N 03E 7							X					X					
							L 2										

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before **February 01, 2010**.
2. Subject to all prior water right.

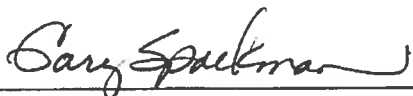
State of Idaho
Department of Water Resources

Permit to Appropriate Water

NO. 65-22911

3. 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.
4. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
5. This right authorizes the filling of one proposed reservoir, also known as Annie Lake. The aesthetic from storage use is for the circulation of storage water between Annie Lake and Whitetail Lake (existing).
6. Recreation storage use is for fishing and swimming.
7. Water shall not be diverted from fire protection storage under this right except to fight or repel an existing fire.
8. 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.
9. 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 determine the amount of water diverted from power records and shall annually report the information to the Department.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this 8th day of February, 2005.


F&R KARL J DREHER, Director

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FEB 01 2010

DEPARTMENT OF
WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY	
Amt. of Fee \$:	100 - 5R7
Receipt No.	0089955
Receipt By:	SR2
Date Received:	2-1-2010

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been completed and that water has been applied to beneficial use to the extent described below. This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner. Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, please contact any Department office or visit the Department's website at: www.idwr.idaho.gov for an Assignment of Permit form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

1. Permit No. 65-22911 Telephone No. 208-630-0250

2. Name of Permit Holder(s): Sabala Whitetail LLC

3. Mailing Address: 501 W. Lake St. City McCall

State ID Zip 83638 Email: _____

4. Source of Water: Ground Water If **GROUND WATER** (well), Date Drilled: mo. _____ / yr. 1993, 1996
1997

Well Driller: Menasco Drilling No. 391 Drilling Permit Number: 65-96-W-0156,
65-97-W-0421, 65-93-W-0040

5. Extent of use(s) completed (as authorized by the water right permit):

Domestic (No. of households): _____ Stockwater (No. and type of stock): _____

Irrigation (No. of acres): _____ Other: Storage

6. Total rate of diversion or storage volume for which proof is submitted: 1.0 cfs OR 60 acre-feet.

7. Compliance with a measuring device requirement, lockable controlling device requirement, and/or other conditions of permit: Refer to the approval conditions on your permit and respond accordingly. The Department will not issue a license if permit conditions are not met.

Measuring Device: Is a measuring device required? Yes ☐ No ☒
If yes, has the measuring device been installed? Yes ☐ No ☐

Lockable Controlling Device: Is a lockable device required to control the diversion? Yes ☐ No ☒
If yes, has the lockable device been installed? Yes ☐ No ☐

Other Conditions of Permit: Do the approval conditions on your permit require you to submit additional information in connection with your proof of beneficial use? If yes, list the conditions below and attach documents with the required information.

Completed? Yes ☐ No ☐

8. Fee Enclosed: \$ 100 See fee schedule on back of the instructions for filing proof of beneficial use. Proofs filed without an appropriate fee, will be considered incomplete.

9. Person to contact to accompany the Department representative during field examination of the water system.

Name: N/A: SPF Water Engineering will conduct exam Telephone Number: _____

Mailing Address: _____ City _____

State _____ Zip _____ Email: _____

The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of permit holder: [Signature] Manager - Sabala Whitetail LLC Date: 1/27/10
(include your title, if on behalf of company or organization)

ATTACHMENT B

WELL DRILLERS' REPORTS

7

Form 236-
3/95IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT
Use Typewriter or Ballpoint Pen

Office Use Only		
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat	Long	

1. DRILLING PERMIT NO. 65-97-W-0421 REV
Dine. IDWR No 65-137512. OWNER:
Name M. Aspects
Address 501 W. LAKE ST.
City McCall State ID Zip 83437

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

Twp. <u>12</u>	North <u>2</u> or South <u>-</u>
Rge <u>2</u>	East <u>2</u> or West <u>-</u>
Sec <u>12</u>	<u>1/4</u> <u>SE</u> <u>1/4</u> <u>NE</u>
Gov't Lot <u>-</u>	County <u>Valley</u>
Lat <u>-</u>	Long <u>-</u>

Address of Well Site

City McCall1. - Bk - Sub. Name -

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injector ☒ Other Storage & distribution

5. TYPE OF WORK (check all that apply) (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other -

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other -

7. SEALING PROCEDURES

SEAL PASTE PACK	AMOUNT	METHOD
Material	Size	Notes
Cement	0 50	10 bags over hole

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 220'Was drive shoe seal tested? ☐ Y ☐ N How? -

8. CASING/LINER:

Depth	From	To	Size	Material	Casing	Line	Notes	Threaded
8"	1	219	250	STEEL	X	-	-	-

Length of Headpipe - Length of Tailpipe -

9. PERFORATIONS/SCREENS

☐ Perforations Method -
☐ Screens Screen Type -

From	To	Slot Size	Number	Diameter	Notes

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

140' below ground Artesian pressure - lb
 Depth flow encountered 230' Describe access port or control devices Well cap

11. WELL TESTS:

Test	Pump	Sealer	Flowing Artesian
1	5	-	220

Water Temp - Bottom hole temp -Water Quality test or comments -

12. LITHOLOGIC LOG. (Describe repairs or abandonment)

Start	From	To	Remarks: Lithology, Water Quality & Temperature
10'	0	3	Top soil
10'	3	37	Gray sand + brown clay
10'	37	40	Gray clay
40'	40	60	Clay yellow or brown
60'	60	80	Clay brown
80'	80	100	White Lt. brownish
100'	100	120	Reddish brown clay
120'	120	140	" "
140'	140	160	" "
160'	160	180	Brown & black sandstone broken
180'	180	200	Broken bed of yellow sandstone
200'	200	220	Clay yellow & sandstone
220'	220	235	Red gravel + fine basalt
235'	235	270	Frank basalt (gray)

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WATER RESOURCES
EASTERN FRANCHISECompleted Depth 270 (Measurable)Date Started 12-9-97 Completed 1-02-98

13. DRILLER'S CERTIFICATION

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

Firm Name Menascu Drilling Firm No. 391Firm Office McCall Date 1-20-98and - Date -Supervisor or Operator - Date -

Signature of Supervisor

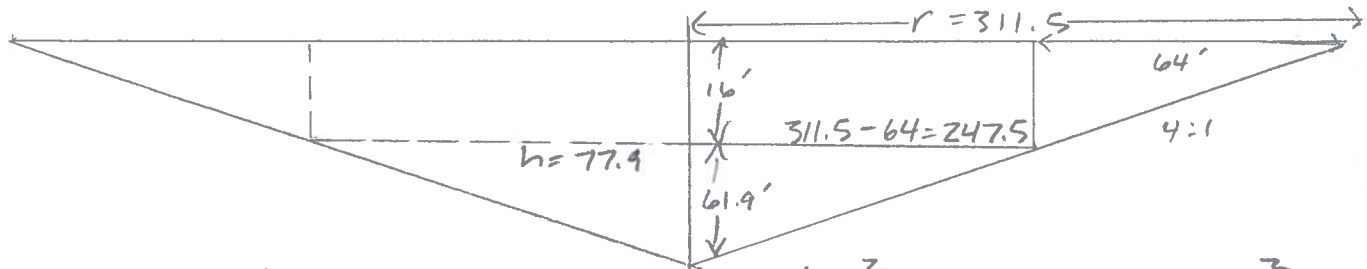
ATTACHMENT C

POND STORAGE CAPACITY CALCULATIONS



By _____ Date _____ Client _____ Sheet _____ of _____
Chkd By _____ Description WHITETAIL POND VOLUME Job No _____

Whitetail Pond: 7 ac surface area
16' deep
4:1 slope $4 \times 16 = 64'$



$$7 \text{ ac surface area} \times 43,560 \text{ ft}^2/\text{ac} = 304,920 \text{ ft}^2$$

$$A = \pi r^2 \quad r = \sqrt{\frac{A}{\pi}} = 311.5 \text{ ft}$$

$$h = 311.5 / 4 = 77.9 \text{ ft}$$

$$\begin{aligned} \text{Total Volume} &= \frac{\pi r^2 h}{3} \\ &= \frac{\pi (311.5)^2 (77.9)}{3} \\ &= 7,915,570 \text{ ft}^3 \end{aligned}$$

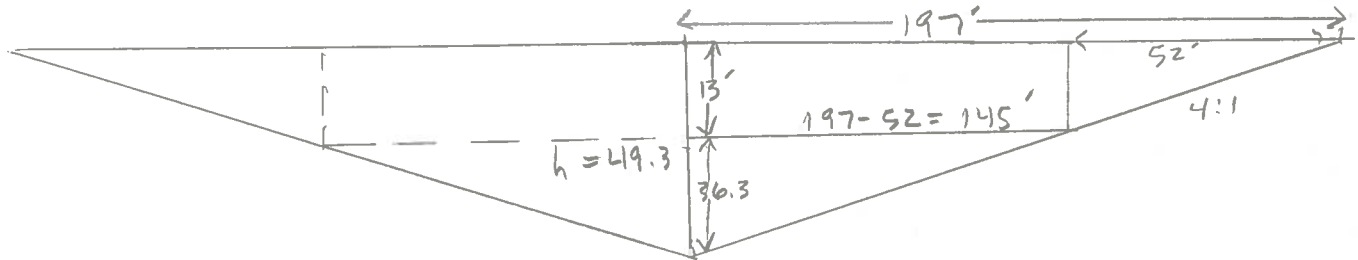
$$\begin{aligned} \text{Volume to Remove} &= \frac{\pi (247.5)^2 (61.9)}{3} \\ &= 3,970,723 \text{ ft}^3 \end{aligned}$$

$$\begin{aligned} \text{Balance} &= 7,915,570 \\ &- 3,970,723 \\ &= 3,944,846 \text{ ft}^3 / 43,560 = \underline{90.6 \text{ AF}} \end{aligned}$$



By _____ Date _____ Client _____ Sheet _____ of _____
Chkd By _____ Description ANNIE POND VOLUME Job No _____

Annie Pond : 2.8 acres surface area
13 ft deep
4:1 slope $4 \times 13 = 52'$



$$2.8 \text{ ac surface area} \times 43,560 \text{ ft}^2/\text{ac} = 121,968 \text{ ft}^2$$

$$A = \pi r^2 \quad r = \sqrt{\frac{A}{\pi}} = 197 \text{ ft}$$

$$h = 197/4 = 49.3 \text{ ft}$$

$$\text{Total volume} = \frac{\pi r^2 h}{3}$$

$$= \frac{\pi (197)^2 (49.3)}{3}$$

$$= 2,003,586 \text{ ft}^3$$

$$\text{Volume to Remove} = \frac{\pi (145)^2 (36.3)}{3}$$

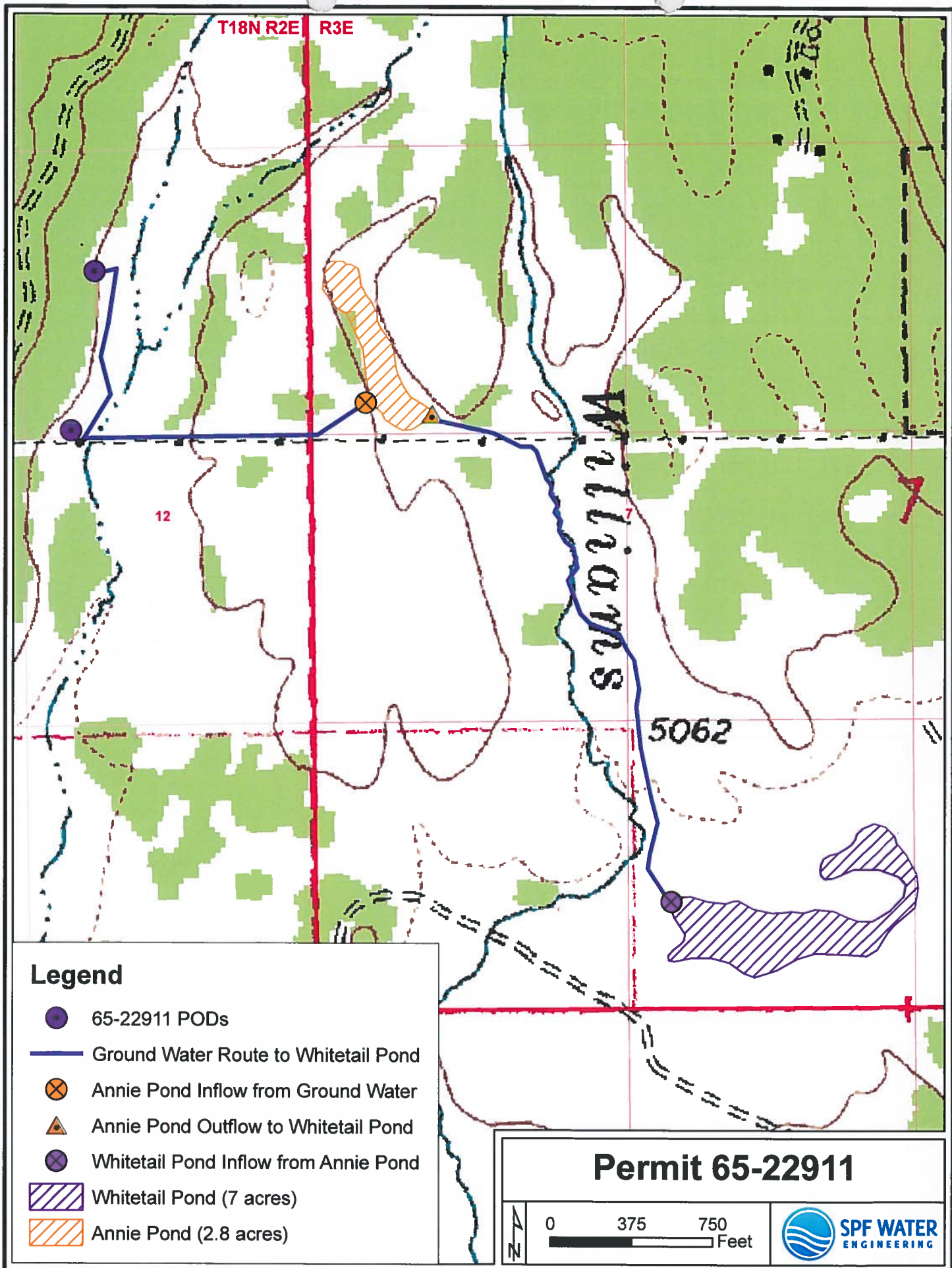
$$= 799,229 \text{ ft}^3$$

$$\text{Balance} = 2,003,586$$

$$- 799,229$$

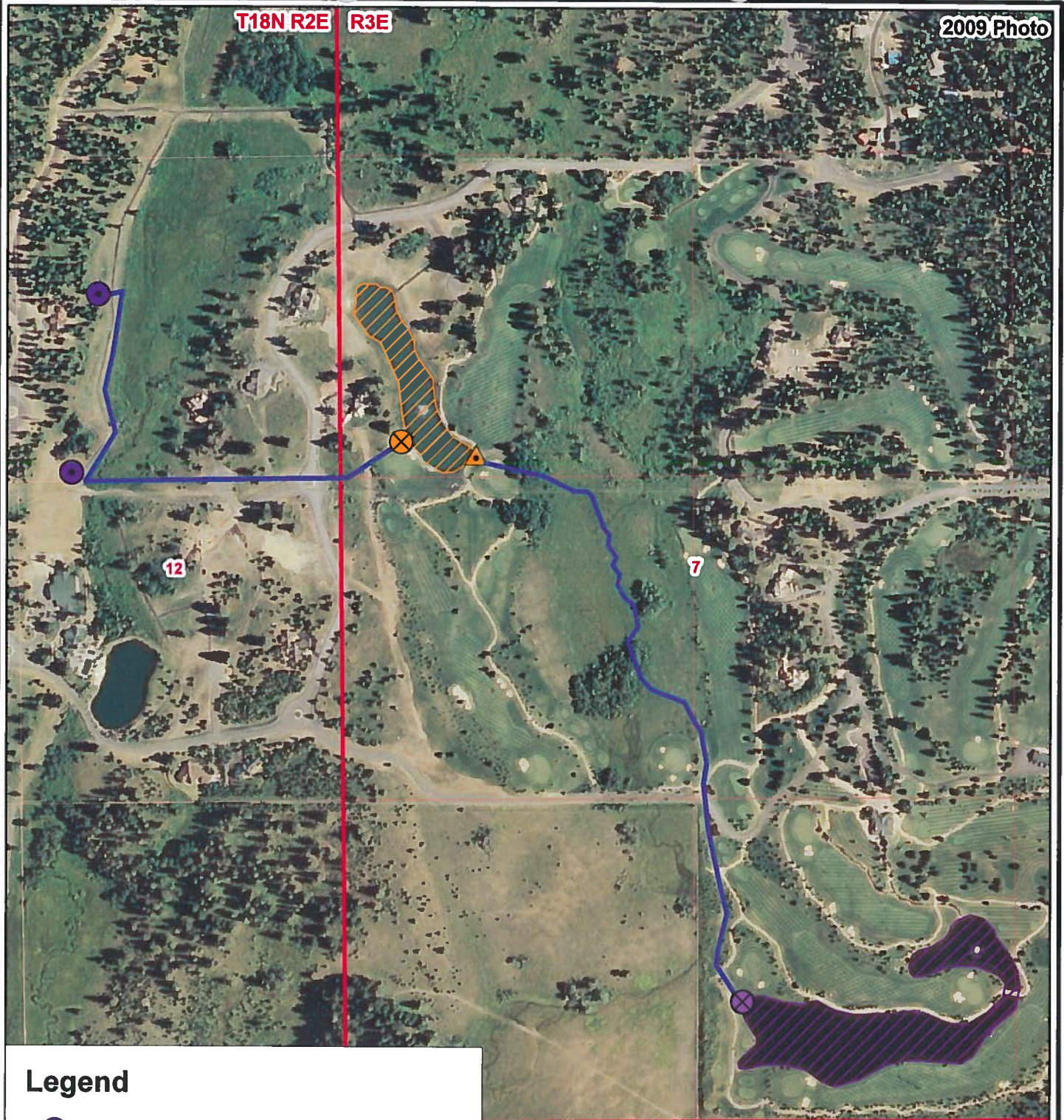
$$1,204,357 \text{ ft}^3 / 43560 = \underline{\underline{27.6 \text{ af}}}$$

ATTACHMENT D
TOPO MAP AND 2009 AERIAL PHOTO



T18N R2E R3E

2009 Photo



Legend

-  65-22911 PODs
-  Ground Water Route to Whitetail Pond
-  Annie Pond Inflow from Ground Water
-  Annie Pond Outflow to Whitetail Pond
-  Whitetail Pond Inflow from Annie Pond
-  Whitetail Pond (7 acres)
-  Annie Pond (2.8 acres)

Permit 65-22911



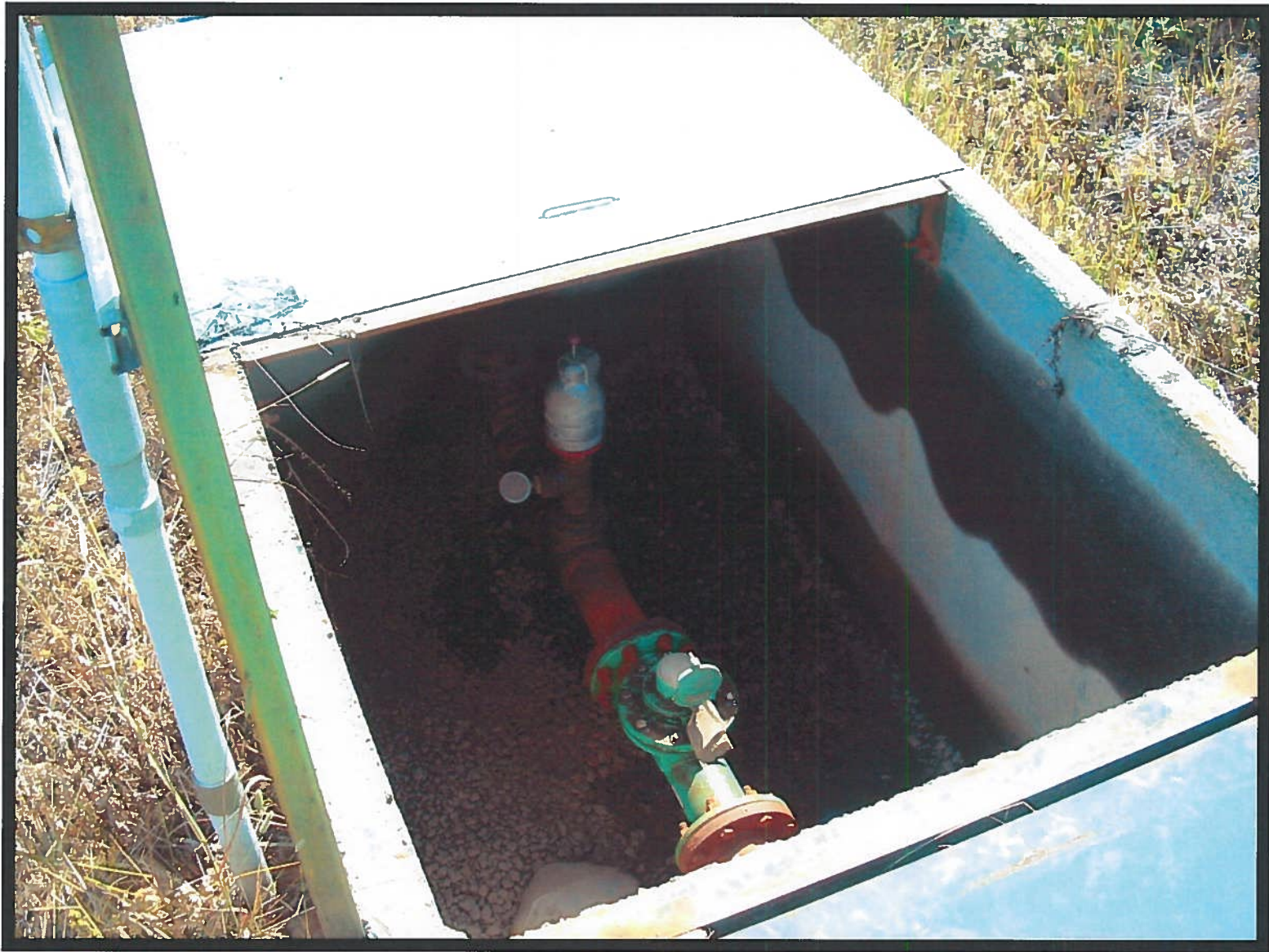
0 375 750
Feet



ATTACHMENT E
PHOTOS



Well 2 and Flowmeter Vault



Well 2 Flowmeter



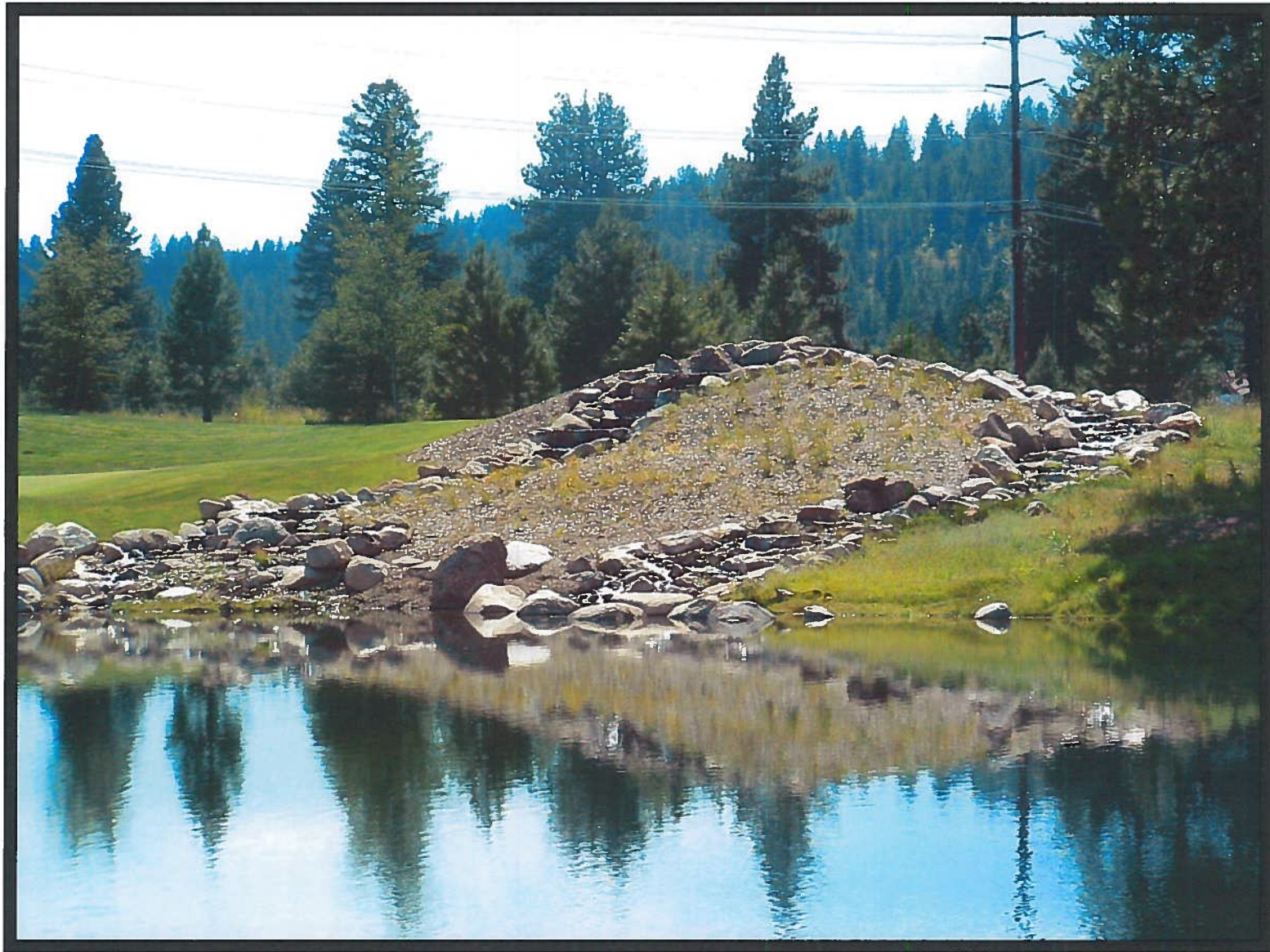
Well 7, Flowmeter Vault and Pump Motor Controls for Well 7 & 2



Well 7 Flowmeter



Annie Pond Looking South



Ground Water Inflow Location on Annie Pond



Ground Water Outflow Location on Annie Pond



Outflow From Annie Pond to Whitetail Pond