

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

MAR 17 2011

WATER RESOURCES
WESTERN REGION

A. GENERAL INFORMATION

Permit No. 65-13751

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 65-13704A, 65-13640

2. Other water rights with the same point of diversion 65-13704A, 65-22911

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												X			X		

X = Storage for wildlife, aesthetic and recreation
uses

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:

Well 7 metered flow rate was 170 gpm on 9/26/2006
 No measurements (other than totalized flow) for Well 2

E. NARRATIVE/REMARKS/COMMENTS

Two wells (Wells 2 and 7) equipped with submersible pumps supply ground water to Whitetail Pond for storage. Ground water is diverted from the wells through a pipeline (2000 feet of 6-inch(?)) that discharges into Annie Pond, then diverted through an open channel from Annie Pond to Whitetail Pond. Wells 2 and 7 also provide storage water to Annie Pond under permit 65-22911. Under this permit, Wells 2 and 7 supply storage water to Whitetail Pond for miscellaneous wildlife, recreational fishing and swimming, and aesthetic use for the golf course. There was no stockwater use observed during the field exam.

Permit 65-13751 lists a third well, also know 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. Well 1 was previously connected to Whitetail Pond using a lift pump at the outlet of Betsey Lake and a pipeline to Whitetail Pond. However, this pump has been disconnected from the pipeline and now only supplies recirculation water in Betsey Lake.

Permit 65-13751 also included Annie Pond, however Annie Pond was not constructed until after the permit development period and therefore not included in the recommended place of use for licensing of 65-13751.

Calculations included in Attachment C indicate 90.6 af total storage capacity for Whitetail Pond, of which 65.6 af has been recommended for licensing under permit 65-13704A and the remaining 25 af under this permit from the same wells. Water diverted from Payette Lake is also used for storage and irrigation uses in Whitetail Pond under permit 65-13640.

This right, when combined with 65-13704A and 65-22911 is limited to a 0.76 cfs diversion capacity.

A licensing amendment is recommended to add the SWSE, S7, T18N, R3E to the place of use for storage in Whitetail Pond.

Attachment A: Copy of the permit and proof of beneficial use

Attachment B: Copies of the well drillers reports

Attachment C: Storage capacity calculations

Attachment D: USGS topographic map and aerial photo

Attachment E: Photos of the place 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)
Diversion to Storage	1/1	12/31	0.76 cfs	
Wildlife Storage	1/1	12/31		25.0 afa
Recreation Storage	1/1	12/31		25.0 afa
Aesthetic Storage	1/1	12/31		25.0 afa
Totals:			0.76 cfs	25.0 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

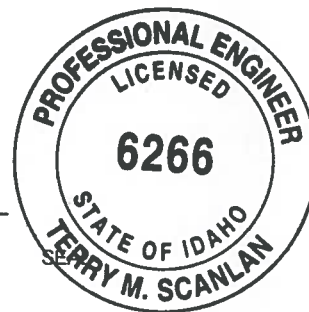
Terry M. Scanlan

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. 65-13751

Proposed Priority: October 6, 1997

Maximum Diversion Rate

1 50 CFS

This is to certify, that M RESORTS

ATTN BOB MCKENNA

PO BOX 1006

MCCALL ID 83638-1006

has applied for a permit to appropriate water from. GROUNDWATER

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>
STOCKWATER STORAGE	01/01 to 12/31		65 0 AF
WILDLIFE STORAGE	01/01 to 12/31		65.0 AF
RECREATION STORAGE	01/01 to 12/31		65.0 AF
AESTHETIC STORAGE	01/01 to 12/31		65 0 AF
DIVERSION TO STORAGE	01/01 to 12/31	1 50 CFS	
	Totals	1 50 CFS	

LOCATION OF POINT(S) OF DIVERSION:

SENE , Sec 12, Township 18N, Range 02E

NWSE , Sec 12, Township 18N, Range 02E

VALLEY County

PLACE OF USE: STOCKWATER STORAGE

TWN RGE SEC

18N 02E 12

SENE

03E 7

SWSE

CONDITIONS OF APPROVAL AND REMARKS

- 1 Proof of construction of works and application of water to beneficial use shall be submitted on or before January 1, 1999.
2. Subject to all prior water rights.
- 3 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
- 4 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code
- 5 Two points of diversion are located within SENE, S12, T18N, R02E.
6. Aesthetic and recreation storage uses are for two fishing and swimming ponds
- 7 Stockwater use is for 8 horses
- 8 Places of use are locally known as Annie Pond and Whitetail Pond

MICROFILMED

MAY 18 1998

State of Idaho
Department of Water Resources**Permit To Appropriate Water**

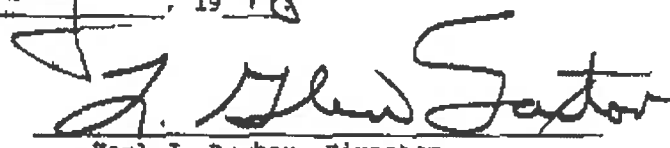
NO. 65-13751

CONDITIONS OF APPROVAL AND REMARKS

- 9 The director retains jurisdiction to require the right holder by written order to release purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary for this purpose will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. The right holder has the right to administrative and judicial review of any order requiring mitigation water to be provided under this condition pursuant to the procedures of Section 42-1701A or Chapter 52, Title 67, Idaho Code.

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

15th day of January, 19 98


for Karl J. Dreher, Director

MICROFILMED
MAY 18 1998

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OCT 17 2001

FOR OFFICE USE ONLY

Amt of Fee \$ 125
Receipt No 628425
Receipt By ES
Date Received 10-17-01

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WATER RESOURCES
WESTERN REGION

RECEIVED

OCT 19 2001

PROOF OF BENEFICIAL USE

Department of Water Resources

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner.

1 Permit No 65-13751 Telephone No 208-634-2244

2 Name of Permit Holder(s) M RESORTS LTD

3 Mailing Address 501 W LAKE ST

City McCALL State ID Zip 83638

4 Source of Water GROUND WATER If GROUNDWATER (well), Date Drilled mo _____ / yr _____

Well Driller _____ Drilling Permit Number _____

5 Use(s) (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 and/or volume for which proof is submitted 1.5 cfs OR 65 acre-feet

7 Measuring Device Requirement (refer to the approval conditions on your permit and respond accordingly)

(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly will be considered incomplete.)

Measuring Device Is a measuring device required?

Yes _____ or No /

Has the measuring device been installed?

Yes _____ or No _____

8 Fee Enclosed \$ 125 (See Fee Schedule on back of the instructions for filing proof of beneficial use)

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

Name BOB McKENNA Telephone Number 634-9675

Address same as above

10 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. I agree to relinquish any undeveloped portion of the permit to the State of Idaho.

Signature of permit holder R McKenna MGR Date 9-24-01
(include your title, if on behalf of company or organization)

MICROFILMED

SEP 2, 2001

ATTACHMENT B

WELL DRILLERS' REPORTS

The Typewriter or Ballpoint Pen

Inspected by _____

Twp____ Rge____ Sec____

1/4 1/4 1/4

Lat: : Long:

CLING PERMIT NO. 65-96-W-0156
IDWR No

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

OWNER:

Name M Resorts #2
Address Bur 1006
City McCall State ID Zip 83638

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

SE NE

		N		
W				E
		S		

Two 10 North ☒ or South ☐
Rge 3 East ☒ or West ☐
Sec. 7 1/2 1/4 NE 1/4 SE 1/4
Gov't Lot _____ County Valley 10 acres 160 acres
Lat. _____ Long: _____ : _____
Address of Well Site Bear Basin
City Alaska

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	20	5 Bags	Overlaid

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 187'
Was drive shoe seal tested? ☐ Y ☐ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	1	187	250	Steel	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations	Method
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— Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Linear
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

52 ft below ground Artesian pressure lb.

Depth flow encountered 130 ft. Describe access port or control devices WEI CAP

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

Completed Depth 192' (Measurable)

Date Started 6-28-96 Completed 8-30-96

13. DRILLER'S CERTIFICATION

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

Firm Name Menasco Drilling Firm No 391

Firm Official [Signature] Date 6.30.96

and
Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

(7)

Form 238-
3/96IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT
Use Typewriter or Ballpoint Pen

Office Use Only		
Inspected by		
Two	Rge	Sec
1/4	1/4	1/4
Lat	Long	
☐ Pump ☐ Sailer ☐ Air ☐ Flowing Artesian		

1. DRILLING PERMIT NO. 65-97-W-0424 REV
Other IDWR No 65-1375

2. OWNER:

Name M. Bessets
Address 501 W. LAKE ST
City MILLER State ID Zip 83632

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

Twp. <u>17</u>	North <u>X</u> or South <u>-</u>
Rge <u>2</u>	East <u>X</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	County <u>VALLEY</u>
Lat	Long

Address of Well Site _____ City MILLER

1. - Blk - Sub. Name -

4. USE:

☐ Domestic ☐ Municipal ☐ Irrigation
☐ Thermal ☐ Injector ☒ Other strange stock water

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	From To	Seals? Depth
<u>CEMENT</u>	<u>0</u> <u>50</u>	<u>100</u> <u>0</u>
		<u>OWI</u> <u>ACE</u>

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

8. CASING/LINER:

Material	From	To	Size	Material	Casing	Line	Warden	Thermostat
<u>Steel</u>	<u>1</u>	<u>219</u>	<u>250</u>	<u>Steel</u>	<u>X</u>			

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Meters

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

Depth flow encountered 230' Artesian pressure _____ lb
Describe access port or control devices WELL CAP

11. WELL TESTS:

Flow Rate	Pressure	Flowing Level	Time
<u>5</u>	<u>-</u>	<u>220</u>	<u>1/4</u>

Water Temp _____ Bottom Hole Temp _____

Water Quality test or comments _____

12. LITHOLOGIC LOG. (Describe repairs or abandonment)

Depth	From	To	Remarks: Lithology, Water Quality & Temperature
<u>10'</u>	<u>0</u>	<u>3</u>	<u>TOP SOIL</u>
<u>10'</u>	<u>3</u>	<u>37</u>	<u>Grey sand + Brown clay</u>
<u>10'</u>	<u>37</u>	<u>40</u>	<u>Grey clay</u>
<u>10'</u>	<u>40</u>	<u>60</u>	<u>Clay yellow & brown</u>
<u>60'</u>	<u>60</u>	<u>80</u>	<u>Clay brown</u>
<u>80'</u>	<u>80</u>	<u>100</u>	<u>White lt. brownish</u>
<u>100'</u>	<u>100</u>	<u>120</u>	<u>Reddish brown clay</u>
<u>120'</u>	<u>120</u>	<u>140</u>	<u>" " "</u>
<u>140'</u>	<u>140</u>	<u>160</u>	<u>" " "</u>
<u>160'</u>	<u>160</u>	<u>180</u>	<u>Brown & black sandstone</u>
<u>180'</u>	<u>180</u>	<u>200</u>	<u>Broken red & yellow sandstone</u>
<u>200'</u>	<u>200</u>	<u>220</u>	<u>Clay yellow & sandstone</u>
<u>220'</u>	<u>220</u>	<u>225</u>	<u>Red gravel & fine basalt</u>
<u>225'</u>	<u>225</u>	<u>270</u>	<u>Fract basalt (cave)</u>

RECEIVED

JUN 04 1998

WATER RESOURCES
1. C. STERN FIRMComplete 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 MONASU Drilling Firm No. 391Firm Office _____ Date 1.20.98and _____
Supervisor or Operator _____ Date _____

15. License Number of Operator _____

ATTACHMENT C

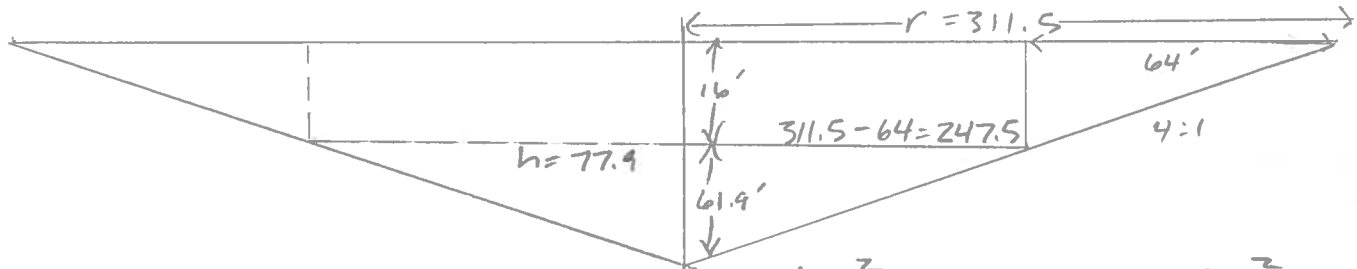
POND STORAGE CAPACITY CALCULATIONS



Whitetail Pond: 7 ac surface area

16' deep

4:1 Slope $4 \times 16 = 64'$



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

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

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

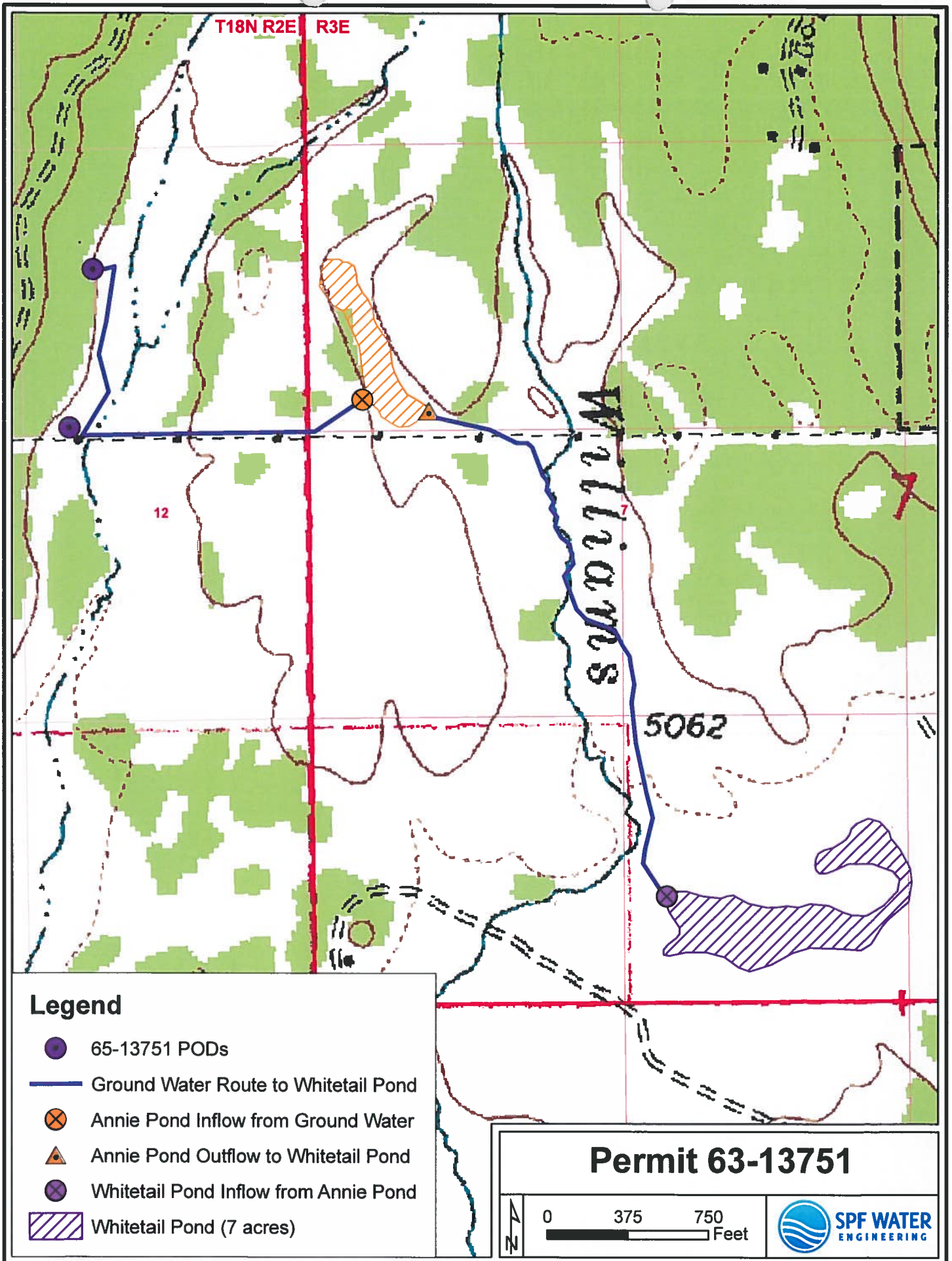
$$\begin{aligned} \text{Total Volume} &= \frac{\pi r^2 h}{3} \\ &= \frac{\pi (311.5)^2 (77.9)}{3} \\ &= 7,915,570 \text{ ft}^3 \end{aligned}$$

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

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

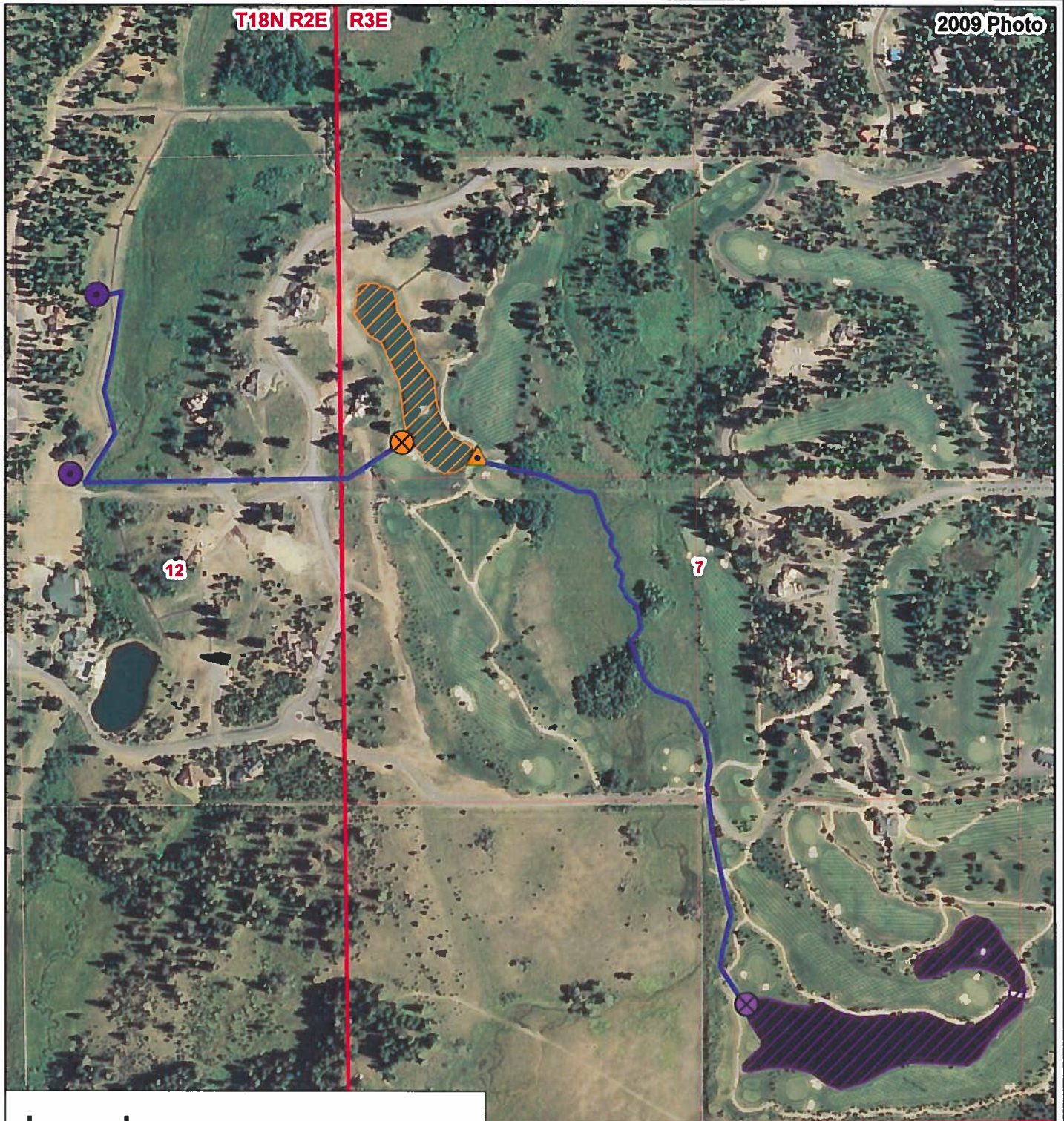
ATTACHMENT D

TOPO MAP AND 2009 AERIAL PHOTO



T18N R2E R3E

2009 Photo



Legend

-  65-13751 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)

Permit 63-13751



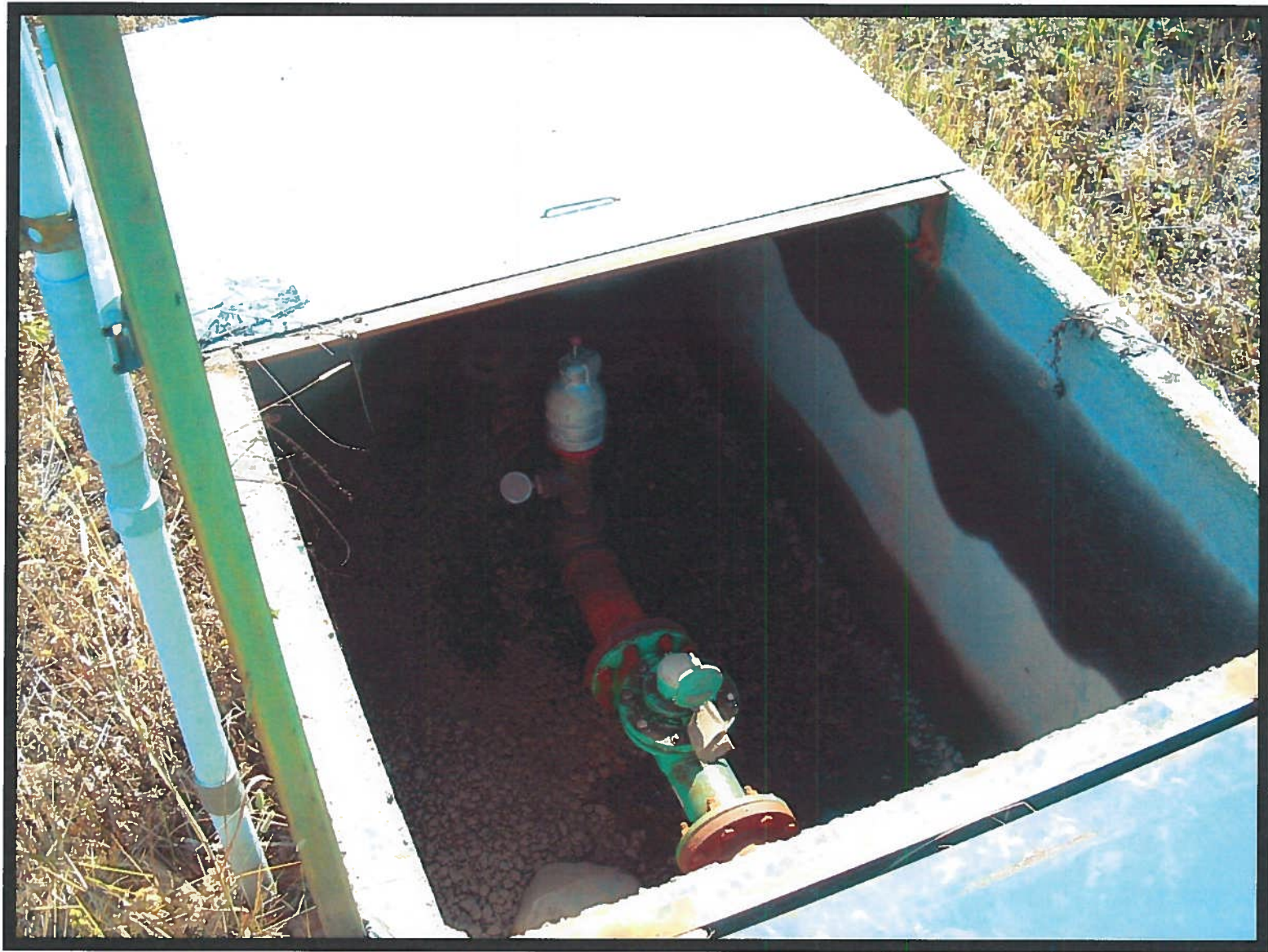
0 375 750 Feet



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



Ground Water Inflow Location on Annie Pond



Ground Water Outflow Location on Annie Pond



Outflow From Annie Pond to Whitetail Pond



Whitetail Pond



Whitetail Pond