

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8281

Exam Date: 9/25/2014

1. Current Owner: DANIEL T MANOOGIAN REVOCABLE TRUST
DANIEL T MANOOGIAN TRUSTEE
21 E HURON ST #1703
CHICAGO IL 60611
2. Accompanied by: NA
Phone No:
Address:
Relationship to Permit Holder:

3. SOURCE

SPRING

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-7882, 37-20809 and 37-12205
2. Other water rights with the same point of diversion: 37-7882

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

SPRING SW1/4NE1/4NE1/4 Sec. 15, Twp 05N, Rge 17E, B.M. BLAINE County

Method of Determination: Used same POD from field exam for right 37-7882 and confirmed by GPS location of weir box described in 37-7882 from same spring diversion. Weir box is about 75 ft. northwest of spring diversion. Weir box and spring diversion are in same QQQ section.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
05N	17E	15	1.1																1.1

Total Acres: 1.1

Note: Parcel within H.E.S. 123, T 5 North, R 17 East, Blaine County. GCDB in this area has shifted since time permit was approved. Original application showed POU and POD in SENE. Current GCDB is NENE for POU, and SWNENE for POD.

Method of Determination: GPS (Garmin) center of parcel and through GIS ArcMap PLSS.

3. X Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- X Aerial Photo Attached (required for irrigation of 10+ acres).
- X Photo of Diversion and System Attached (POD/source not shown – could not access spring without boots)

4.

<u>Well or Diversion</u> <u>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</u> <u>Size</u>
Spring POD					

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
90° V Notch Weir						

Weir installed in box as part of diversion and conveyance system.

2. Measurements:

Measured head over 90° V-notch weir installed in weir box using standard staff gage.

Head measurement = 0.2 ft. (2.4 or 2-3/8 inches).

Note: Flow into box from two 2 inch pipes surged up and down slightly but average head = 0.2 ft.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Use US Bureau of Reclamation Water Measurement Manual – Discharge Table for 90° V-notch weir with

Head (h) = 0.2 ft. (from formula $Q = 2.49 h^{2.48}$)

Q = 0.046 cfs or approx. 0.05 cfs.

F. 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:

G. NARRATIVE/REMARKS/COMMENTS

System Description: Water diverted from spring source via two 2-inch pvc pipes to a galvanized steel weir box with baffle and standard 90° V-notch weir. Water discharges to concrete vault/holding tank via 2 two inch pvc pipes. Spring source, weir box and tank located on US Forest Service land. From holding tank, water is conveyed via pipe line to a second concrete vault/control box on edge of owner's property. Water from box connected to approx 6 inch diameter steel casing with submersible pump for irrigation (pump size could not be confirmed). Water discharges from vault/control structure via pipe line to pond which commingles with ground water irrigation well located next to pond (see right 37-20809). A small irrigation pump (size could not be confirmed) is located on edge of pond near pond outlet in irrigation control box – this is a re-lift irrigation pump from pond to sprinkler irrigation system using commingled water from both the spring and the adjacent irrigation well.

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	05/01 to 10/31	0.030 CFS	
<u>Totals:</u>		0.030 CFS	

2. Recommended Amendments

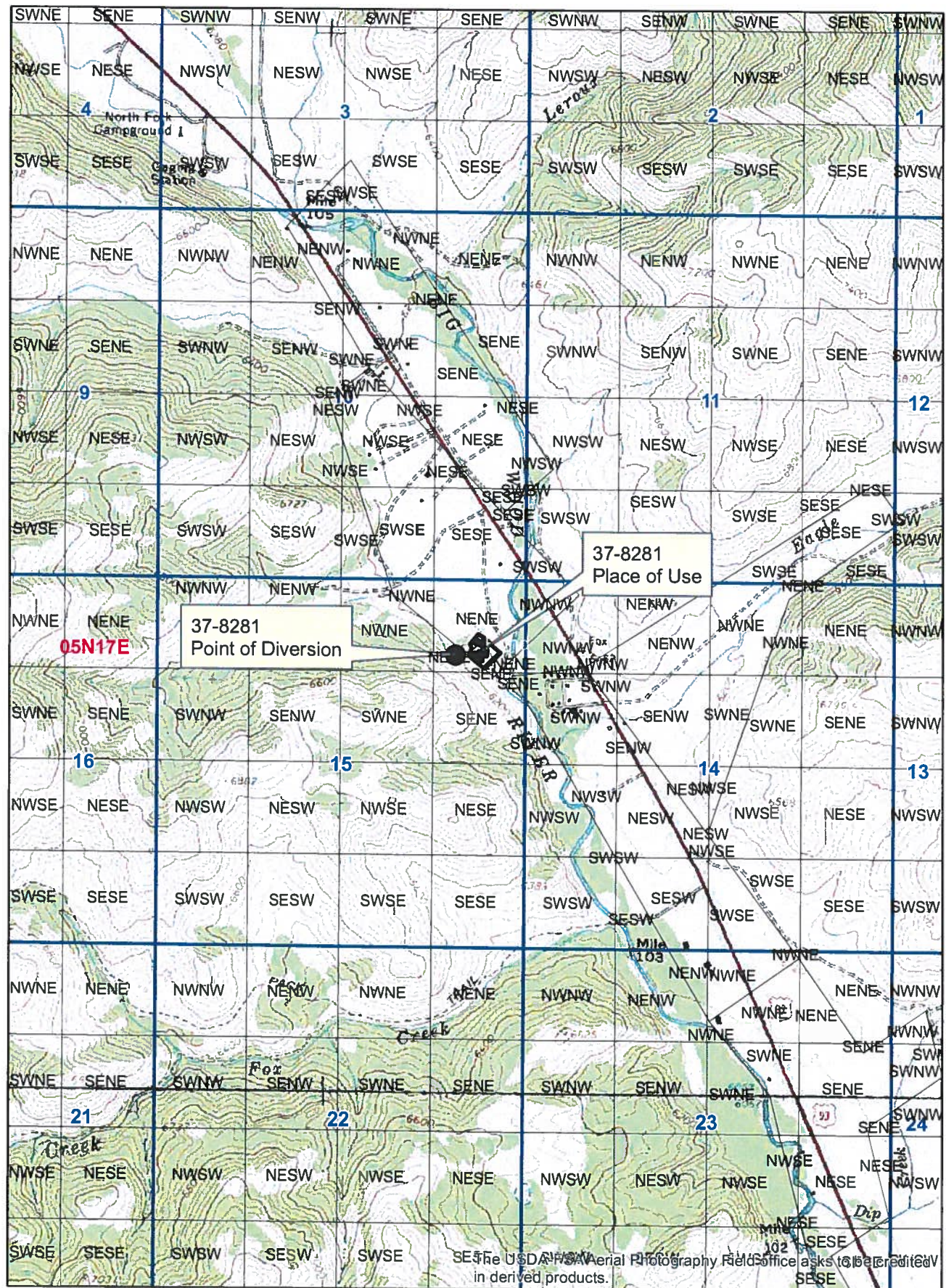
☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Tim Rule Date 12/29/2014
 Reviewer Daniel A. Meltzer Date 12-30-14

37-8281 Daniel T Manoogian Revocable Trust

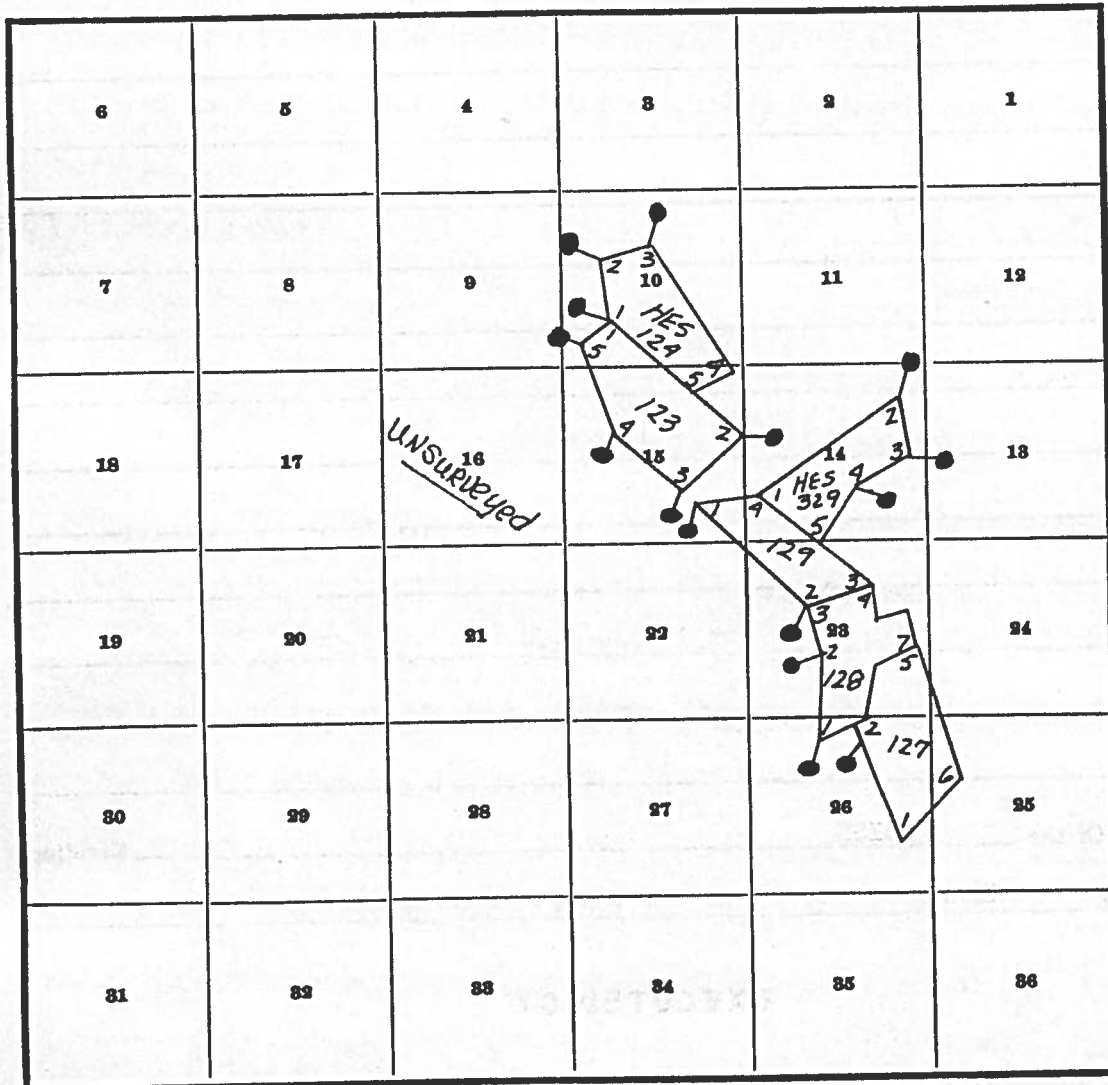


1:24,000



INDEX DIAGRAM

Township 5 North, Range 17 East,



H. E. S. No. 123

- Page 1, Cor. No. 1
- Page 1, Cor. No. 2
- Page 2, Cor. No. 3
- Page 2, Cor. No. 4
- Page 2, Cor. No. 5

H. E. S. No. 124

- Page 1, Cor. No. 2
- Page 1, Cor. No. 3

H. E. S. No. 128

- Page 1, Cor. No. 1
- Page 1, Cor. No. 2

H. E. S. No. 129

- Page 1, Cor. No. 1
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H. E. S. No. 329

- Page 1, Cor. No. 2
- Page 1, Cor. No. 3
- Page 2, Cor. No. 4

H. E. S. No. 127

- Page 1, Cor. No. 2



NENE

Control Structure &
re-diversion pump

Domestic well
37-12205

Irrigation well
37-20809
A0017385

Holding Tank

Spring POD
37-7882 & 37-8281

05N17E

Pond

Weir Box
90 deg V-notch weir

Pipeline

Irrig re-lift pump

Pond outlet

NENE

Permit 37-8281
Field Exam: 9/25/2014

Irrigation POU/
Manoogian Parcel

SENE

SENE

STATE OF IDAHO
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BENEFICIAL USE FIELD REPORT

RECEIVED
SEP 28 1987

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 37-7882

1. Owner: Roy Woods

Phone No. _____

Current Address: Box 1028, Sun Valley, Idaho

2. Accompanied by: Gerald Martens

EXAM. DATE: 6-23-87

Address: 1139 Falls Ave E, Twin Falls, Idaho

Phone No. 734-4888

Relationship to Permit Holder: None

3. Source: Unnamed Spring tributary to Sinks

B. OVERLAP REVIEW

1. Other water rights with same place of use: None

☐ Copies Attached

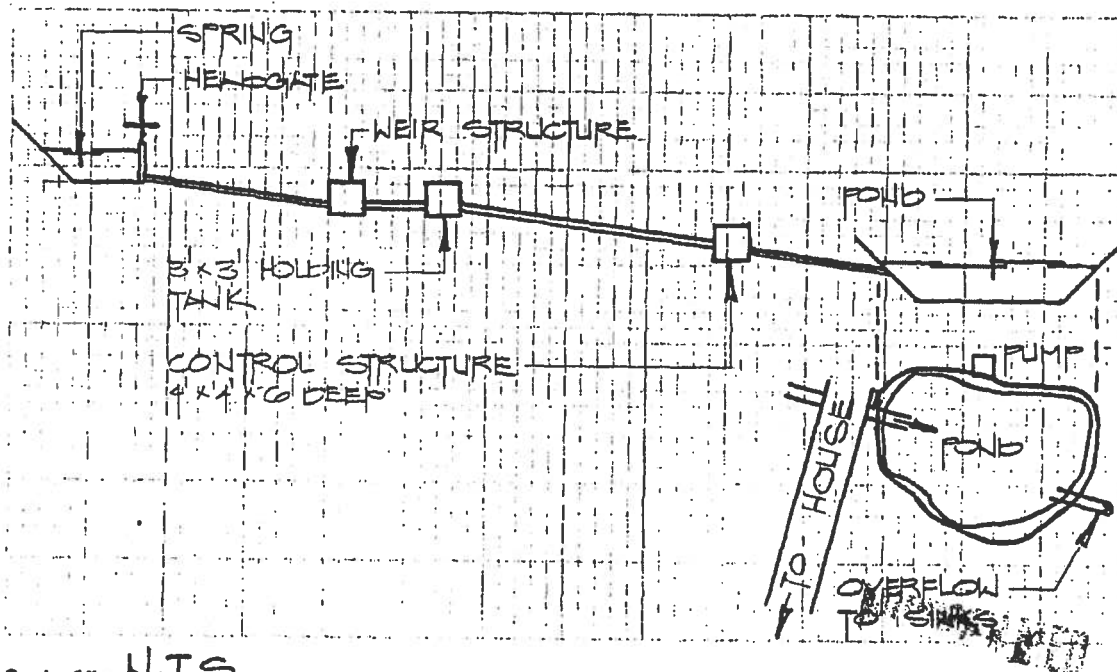
2. Other water rights with same point of diversion: None

☐ Copies Attached

☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. Diversion System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



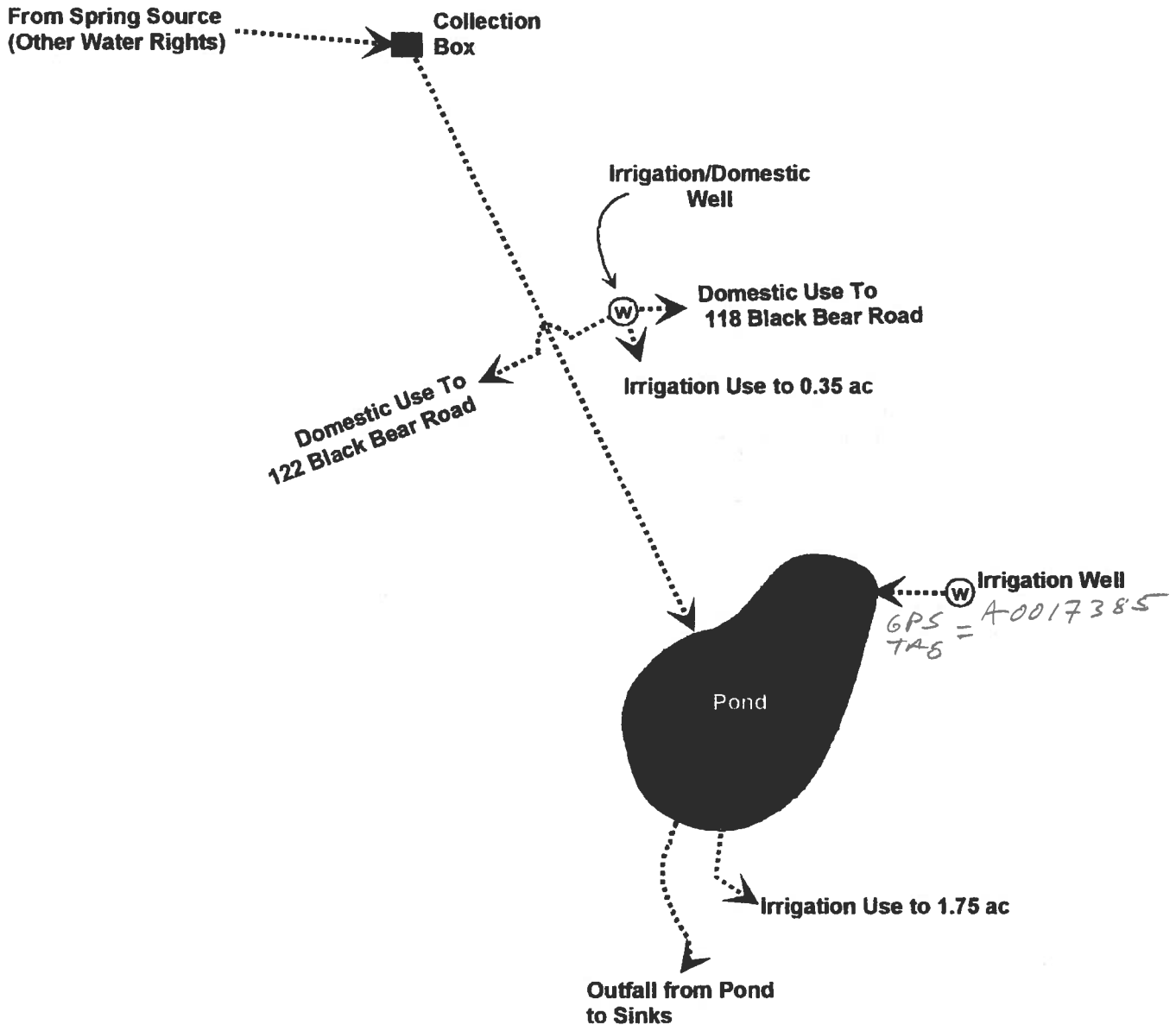
Scale: 1" = N.T.S.

2. ☒ Copy of U.S.G.S. 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 or more).

☒ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

**Roy A. Woods Property
118 & 122 Black Bear Road
Beneficial Use Exam - Schematic Diagram**



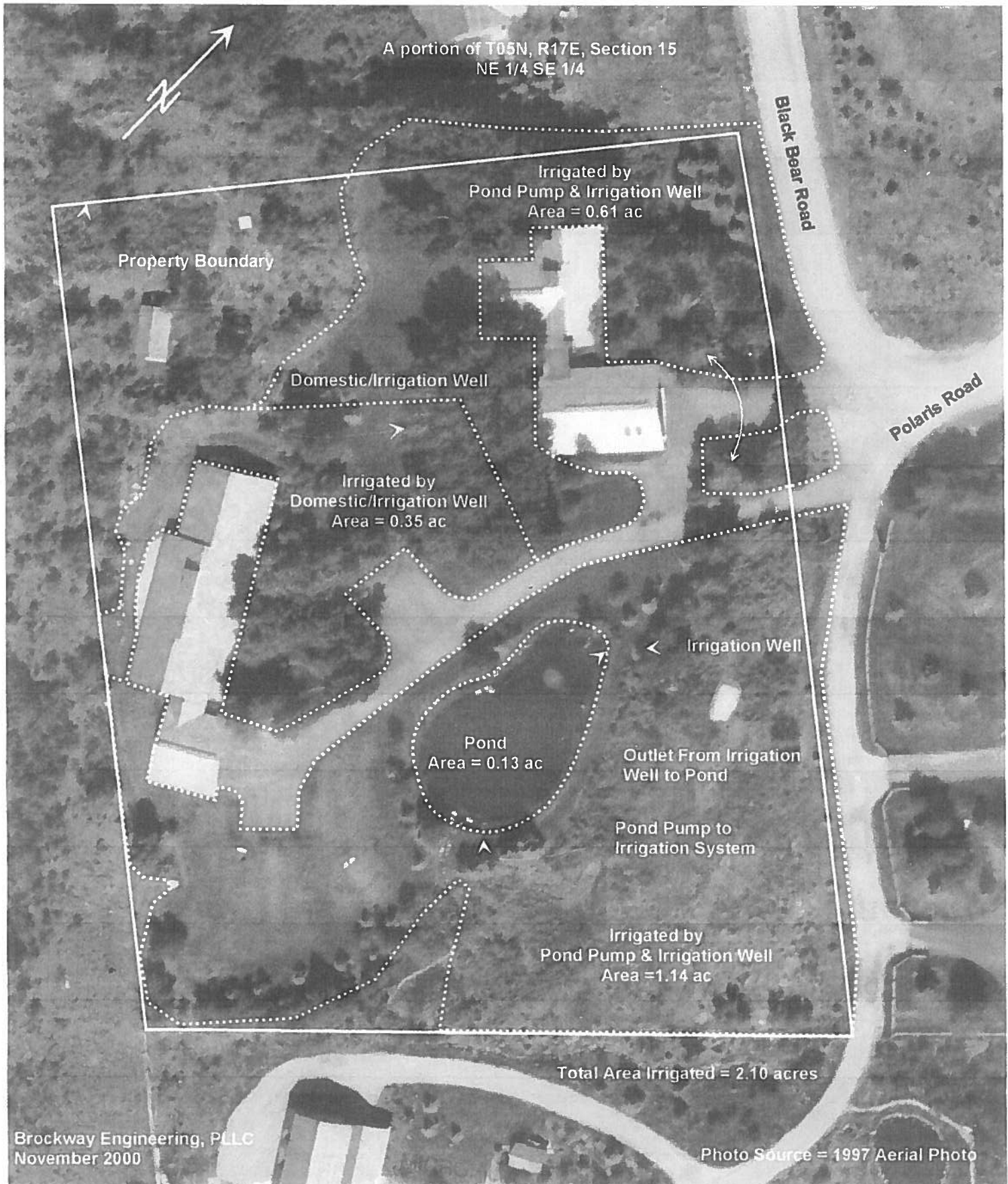
**Brockway Engineering, PLLC
November 2000**

*From File 37-20809
Field Exam*

MICROFILMED

NOV 20 2003

**Roy A. Woods Property
118 & 122 Black Bear Road
Beneficial Use Exam - Site Plan**



From File 37-20809
Field Exam

NOV 20 2003

Field Exam Photos

Permit 37-8281

IDWR/Tim Luke: 9/25/2014

Note: No photos or observation made of diversion point/head gate. Examiner could not access diversion point/source but relied on description from field exam for right 37-7882. Examination of system made on 9/25/2014 from measuring device (weir box) to pond outlet and re-diversion.



Photo 1: Weir box with baffle and 90° V-notch weir. Inflow to box from spring source/diversion.



Photo 2: Weir box with two 2 inch pipes inflow from spring source/diversion (left side of photo), and two 2 inch pipes discharge to storage tank (right side of photo).



Photo 3: Storage tank/vault (foreground) below weir box (in background).



Photo 4: Control structure on edge of property & downstream of weir box & storage tank. Note vertical steel pipe casing behind box with electrical connection for submersible irrigation pump (pump size unknown/could not be confirmed).

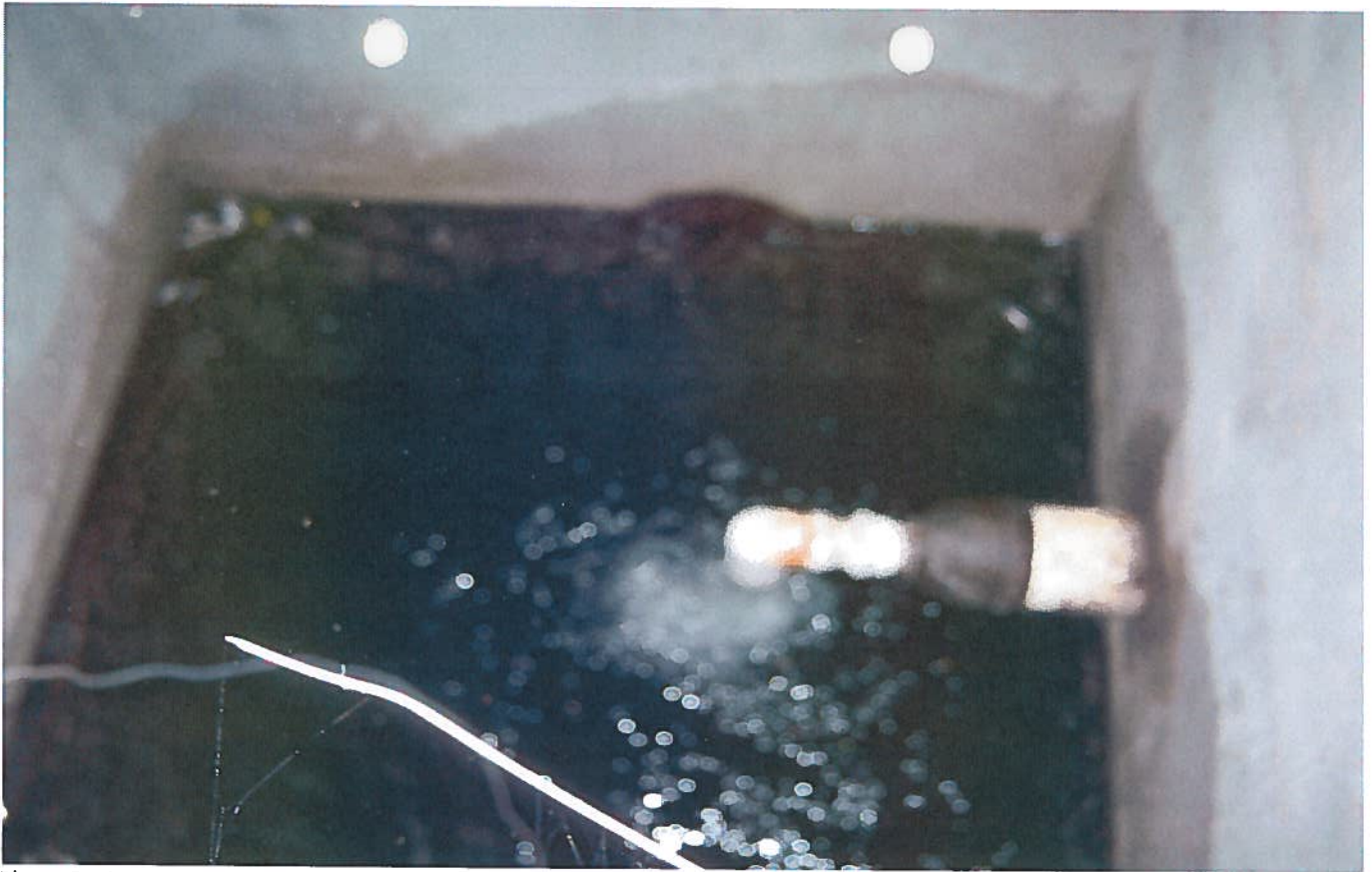


Photo 5: Control structure/vault: Inflow from spring/weir box/storage tank through approx. two inch pvc pipe. Outlet pipe towards property and pond.



Photo 6: Irrigation well by pond – water right 37-20809 (GPS tag A0017385).



Photo 7: Electrical power and irrigation sprinkler system control panels/boxes (photo taken from irrigation well, pond in background).



Photo 8: Pond with commingled sources of water (spring and irrigation well). Note pond outlet in foreground and irrigation boxes on right side of photo for irrigation pump and valves.



Photo 9: CMP with intake pipe from pond with valve and small irrigation pump/discharge pipe to sprinkler system.



Photo 10: Irrigation box next to CMP/pump with filter/irrigation system connection.

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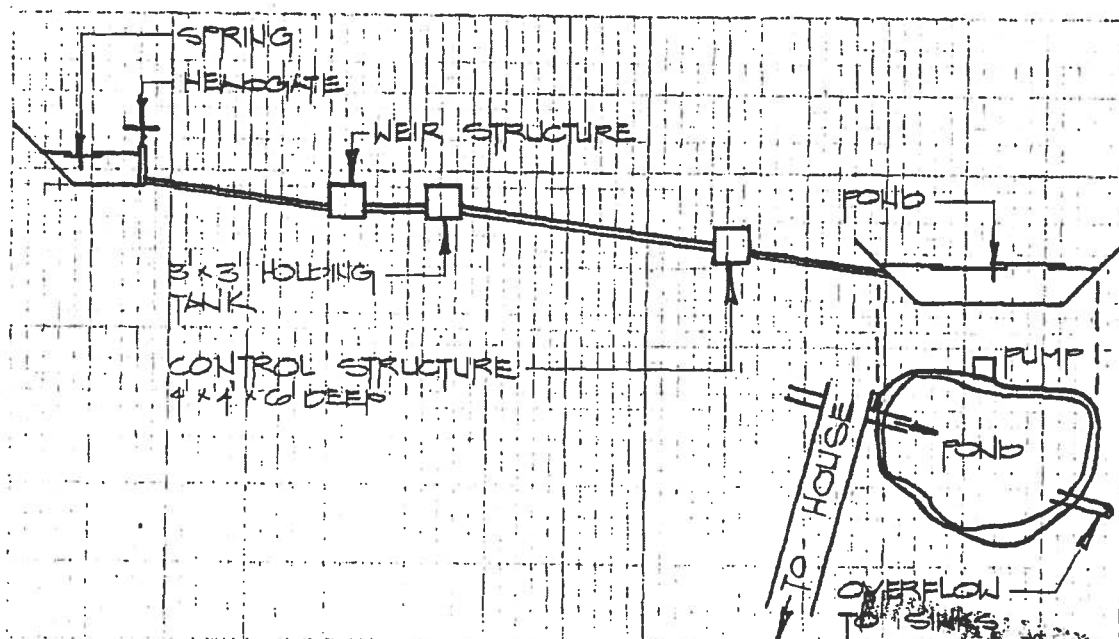
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AUG 15 1994