

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-8457

Exam Date: 8/6/2008

1. Current Owner: PAUL F FINMAN
764 S CLEARWATER LOOP
POST FALLS ID 83854

And/Or

LORNA C FINMAN
764 S CLEARWATER LOOP
POST FALLS ID 83854

2. Accompanied by: Paul Finman (owner 2008) Wes Kallas (prior owner) ²⁰⁰⁸
Phone No: (208) 262,4521 EXT 205
Address: 764 S Clearwater Loop, Post Falls, ID 83854
Relationship to Permit Holder: Owners at time of field exam (2008)

3. SOURCE**TRIBUTARY**

UNNAMED STREAM

RATHDRUM CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-731 (stockwater), 95-7617 (Irrigation)
2. Other water rights with the same point of diversion: 95-7616 (Lapsed), 95-7719, 95-4358*
*95-4358 (No filing in Twin Lakes Adjudication)

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:** 116° 53' 31.5" W 47° 49' 30.7" N (Approximate)
UNNAMED STREAM L2 SW1/4NW1/4 Sec. 30. Twp 52N. Rge 04W, B.M. Heavy Tree Cover
KOOTENAI County

Method of Determination: U.S.G.S. 'Rathdrum' 7.5' Quadrangle, Garmin GPS

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
52N 04W 30	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	16.6
Total Acres:	16.6																

IRRIGATION STORAGE same as IRRIGATION

IRRIGATION FROM STORAGE same as IRRIGATION

DIVERSION TO STORAGE same as IRRIGATION

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater
☒ Aerial Photo Attached (required for irrigation of 10+ acres).
☒ Photo of Diversion and System Attached

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4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
NA	~~Unknown~~ Briggs	5	Unknown Not Readable	Monarch Industries	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
Bucket	Plastic	Lowes	NA	NA	5 GAL (marked)	NA
Watch	Wrist	Remington	NA	NA	NA	NA

2. Measurements:

$$\begin{array}{l} \text{End} \\ \text{Sprinkler} \end{array} \quad \frac{5.5 \text{ GAL}}{15 \text{ seconds}} \times \frac{4}{4} = \frac{60 \text{ SEC}}{22 \text{ GAL}} = 22 \text{ BPM}$$

E. FLOW CALCULATIONS

Measured Method:

Additional Computation Sheets Attached

Theoretical (See Below)

PUMP EQUATIONS	WATER RIGHT	No. 95-8457				
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI	
Q = HP*8.8*Eff/H	5	77.82313	0.7	20	25	
Q =	0.396 cfs	= 179 GPM				

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (16.6) \times (3.0) = 49.8 = 5\phi \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (.2) \times (246) \times 1.9835 = 97.58 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 5\phi \text{ AF}$$

2. Volume Calculations for Other Uses: Diversion To Storage, Irrigation Storage
Irrigation From Storage (By Permit)① Reservoirs Behind concrete & earth dams are 'on stream' therefore
Diversion To Storage is not present.② Irrigation Storage (Measurements from 95-7719 Exam are on
same structures)

$$\begin{array}{c} \text{Dam @ Concrete Reservoir} \quad \text{Pond} \quad \text{Pond} \quad \text{Pond} \\ [1\pi (25^2) (5' \text{ deep})] + [1\pi (25^2) (4' \text{ deep})] + [180 (75) (10)] + [400 (160) (10)] \\ (43560) \times (3) \end{array}$$

$$[9812.5] + [7850] + [135,000] + [640,000] = 6.46 \text{ AF}$$

$$(43560) \times (3)$$

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G. NARRATIVE/REMARKS/COMMENTS

Permit 95-8457 is one of several water rights that employ the same facilities and Points Of Diversion (POD) developed by Marvin K. Willadsen on a 470 acre farm and forest property located 1-2 miles north of Rathdrum. 95-8457 uses the water system described in License 95-7719 plus an extension of a 95-7719 pipeline to reach the 95-8457 Point of Use (POU). The water system, although heavily damaged, demonstrated its capacity to deliver the permit CFS to the Permit POU during the 2008 Exam.

The Willadsen property has been sold, and Permit 95-8457 assigned, to Paul and Lorna Finman. New owner Paul Finman accompanied me during the 2008 Exam. Wes Kallas (owner prior to Mr. Finman) accompanied me during part of the August 2008 exam at one of the earthen dam reservoirs and at the POU. Neither Mr. Finman nor Mr. Kallas was familiar with the entire water system during the 2008 Exam.

50-100 cattle were seen grazing on the property in 2007 and again in 2008 prior to the Finman purchase. Livestock were also present after the Finman purchase.

Permit 95-8457 involves two unnamed streams and four impoundments. The streams and impoundments are not shown on the U.S.G.S. (Rathdrum) 7.5 Minute Quadrangle. Portions of the irrigation system, dams and impoundments have been heavily damaged or destroyed by lack of maintenance and silting up of reservoirs, overgrown by trees, trampled by livestock, and damaged by vandalism and logging activity.

The 95-7719 Field Exam report indicates that there are three earthen dam ponds and one concrete dam on the Willadsen property. Only two earthen dam ponds and one concrete dam were found on the Finman property during the August 2008 95-8457 Field Exam. Pond 2 in the 95-7719 Field Exam report (the uppermost and shallowest earthen dam pond) could not be located and may have merged with the next pond to the east. The August 2008 Exam occurred after a winter with record high winter and spring precipitation.

Stream 1 begins west of the Finman property on Rathdrum Mountain and runs from northwest to southeast across the boundary between Section 25 T52 R05W and Section 30 T52N R04W. Stream 1 continues to the southeast and into Section 30 through a 10 acre parcel owned by Robert F. Jones ETUX which is the site of the concrete dam and POU for decreed water right 95-7592 just before entering the Finman property.

Stream 1 passes underneath the Finman property boundary fence and enters a rugged and heavily wooded area containing two large springs. Each spring is in a separate, boggy, overgrown area located North of, and contiguous to, Stream 1. Each spring has a large perforated concrete vault/collection box rising above surface level that appears to be an inlet point for an underground pipeline. Both springs are located in the SW NW S.30 T52N R04W. Both concrete vaults were plugged with wet black mud and no water could be seen moving or draining into a pipeline below the vaults. These vaults may be a site for a POD for abandoned statutory water right 95-4358 (see overlaps).

The route of any pipeline connected to the spring vaults could not be verified during the Field Exam. Drawings for the 95-7519 water right application and 95-7519 Exam do not show spring locations. The drawings indicate a gravity pipeline route from a concrete dam to irrigation reservoirs located behind earth dams to the east. No outlets for any pipelines connecting the spring vaults to the reservoir behind the concrete dam were observed. It could not be determined if the spring vaults are connected to a pipeline leading to the reservoirs behind the earth dams.

A concrete dam described and photographed in the 1984 Field Report for 95-7719 lies about 50 yards below the springs. A hole was found in 2008 in the concrete at the west end of the dam. The hole currently allows all water to pass through the dam. There was no standing water behind the dam during the 2008 exam. The hole is not visible in the Field Exam photographs for 95-7719, taken in 1984, or described in the 95-7719 Exam report. A white inlet pipe for a pipeline was found in 2008 in the reservoir area immediately upstream from the concrete dam. This inlet pipe is visible in the 95-7719 Exam

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photographs. Mr. Finman is preparing to repair the hole.

Two parallel ditches begin immediately below the concrete dam and flow southward. The ditch on the right (when facing southward) continues across the Finman property boundary onto the Sylte Ranch. The ditch on the left veers to the east and down a small valley before emptying into the earth dam ponds. Water was flowing through the ditch to the earth dam ponds during the 2008 Exam.

I heard water falling into a six inch diameter vertical inlet point or vent hole for a pipeline in August 2008 while searching for the concrete dam. The location of this structure in August 2008 was in a flooded area with heavy ground vegetation 25 yards south of the dam and east of the two ditches. Its location is consistent with a sketch in the 95-8457 application showing a pipeline leading from the concrete dam to the reservoirs behind the earth dam ponds. Crushed metal and plastic pipe was seen at several locations between the inlet pipe and the earth dam reservoirs in August 2007 and again in 2008.

Impounded water was standing behind both of the remaining earthen dams in August 2008. Both reservoirs were completely filled with tall aquatic vegetation. Valves and other earth reservoir structures described in the 95-7719 Exam report could not be located.

The amount of water standing behind the last and largest earth dam suggested that an additional source of water was supplying this reservoir in August 2008. Mr. Finman and I discovered a dry ditch with large segments of broken pipe that enters the Northeast corner of the reservoir. We followed this ditch from the reservoir northward and found Stream 2. Stream 2 is marked with (Private Water Augmentation Est .02 or .03) CFS on the 95-7719 Exam report and flows and sinks into the ditch. A small diversion dam on Stream 2 diverts part of the water above the ditch for domestic use at the Willadsen farmstead and irrigation in fields near the farm buildings. This source of water was being used to supply a doublewide mobile home on the property in August 2008. I measured the stream volume ~~volume~~ below the diversion dam at .05 CFS.

Mr. Kallas used a Five Horsepower pump to move water from the large irrigation reservoir through a surface irrigation pipeline to the 95-8457 POU in August 2008. Theoretical calculations indicate this system can divert more than twice the permit CFS. The pipeline, though damaged and leaking, successfully delivered water over 2000 feet to sprinkler lines in the POU. The permit indicates the POU is 20 acres. However, Kootenai County taxlot information and map measurements indicate this portion of the property is limited to 16.62 acres.

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	3/15 to 11/15	0.200 CFS	50.00 AF
IRRIGATION STORAGE	1/01 to 12/31		6.00 AF
IRRIGATION FROM STORAGE	3/15 to 11/15		6.00 AF
DIVERSION TO STORAGE	1/01 to 12/31		
		<u>Totals:</u>	
		0.200 CFS	56.00 AF

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

William M. Mafey

Date

10/27/08

Reviewer

[Signature]

Date

10/30/8

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MEMORANDUM

Date: October 27, 2008
To: Water Right File 95-8457
From: smaxey
Re: Overlaps

Permit 95-8457 is one of several water rights that employ the same facilities and Points Of Diversion (POD) developed by Marvin K. Willadsen on property now owned by Paul and Lorna Finman. The rights held by Willadsen and Finman are located on a 470 acre farm and forest property located 1-2 miles north of Rathdrum. Permit 95-8457 has been assigned to Paul and Lorna Finman. Ownership change for the other Willadsen water rights on the property now owned by the Finmans has not been completed.

The POU for all of the Willadsen water rights was owned by Mr. Willadsen before the property was conveyed to his daughter and son-in-law (Shellee Kallas/Wes Kallas) and to the current owners (Paul and Lorna Finman). Idaho Department of Water Resources (IDWR) has received assignment of permit documents for 95-8457 to assign ownership to the Finmans.

Decreed water right 95-7592 (Conner) (.04 CFS 3.7 AF Irrigation & Stockwater) lies just west of the Finman property on a parcel now owned by Robert Jones ETUX. See Admin Memo 95-7592 for additional information.

Abandoned statutory water right 95-4358 has two spring PODs, one in the same quarter quarter as the two springs seen in the August 2008 Field Exam and another in the SE NW S 30 T2N R04W. I believe that the second POD location for 95-4358 is in error and that both springs for this water right were located in the same 1/4 1/4 (SW NW S.30 T52N R04W). Mr. Willadsen did not file a claim for 95-4358 during the Twin Lakes Adjudication.

95-7616 (Lapsed), License 95-7719 and License 95-4358 describe diversion facilities and irrigation storage ponds that are also used for Permit 95-8457.

The POD location of Water Right 95-2011 is located in the same quarter quarter section as that for a stream marked (Private Water Augmentation) on a map page from the Twin Lakes Adjudication. The map page accompanied the Field Exam report for Water right 95-7719. The stream marked (Private Water Augmentation) supplies water via a ditch to one of the 95-8457 ponds (see 2008 Field Exam). 95-2011 was not filed upon during the Twin Lakes Adjudication and is considered abandoned.

Licensed Rights 95-731 (Stockwater) and 95-7617 (Irrigation), held by Mr. Willadsen, are diversions from Rathdrum Creek with Points of Use (POU) that overlap the Permit 95-8457 POU. 95-7617 provides for irrigating only 12.7 acres of the 16.62 acres in the POU. Permit 95-8457 calls for irrigating 20 acres but only 16.62 acres were owned by Willadsen and conveyed to Finman.

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MEMORANDUM

Date: October 27, 2008
To: Water Right File 95-8457
From: smaxey
Re: Admin Memo 95-7592

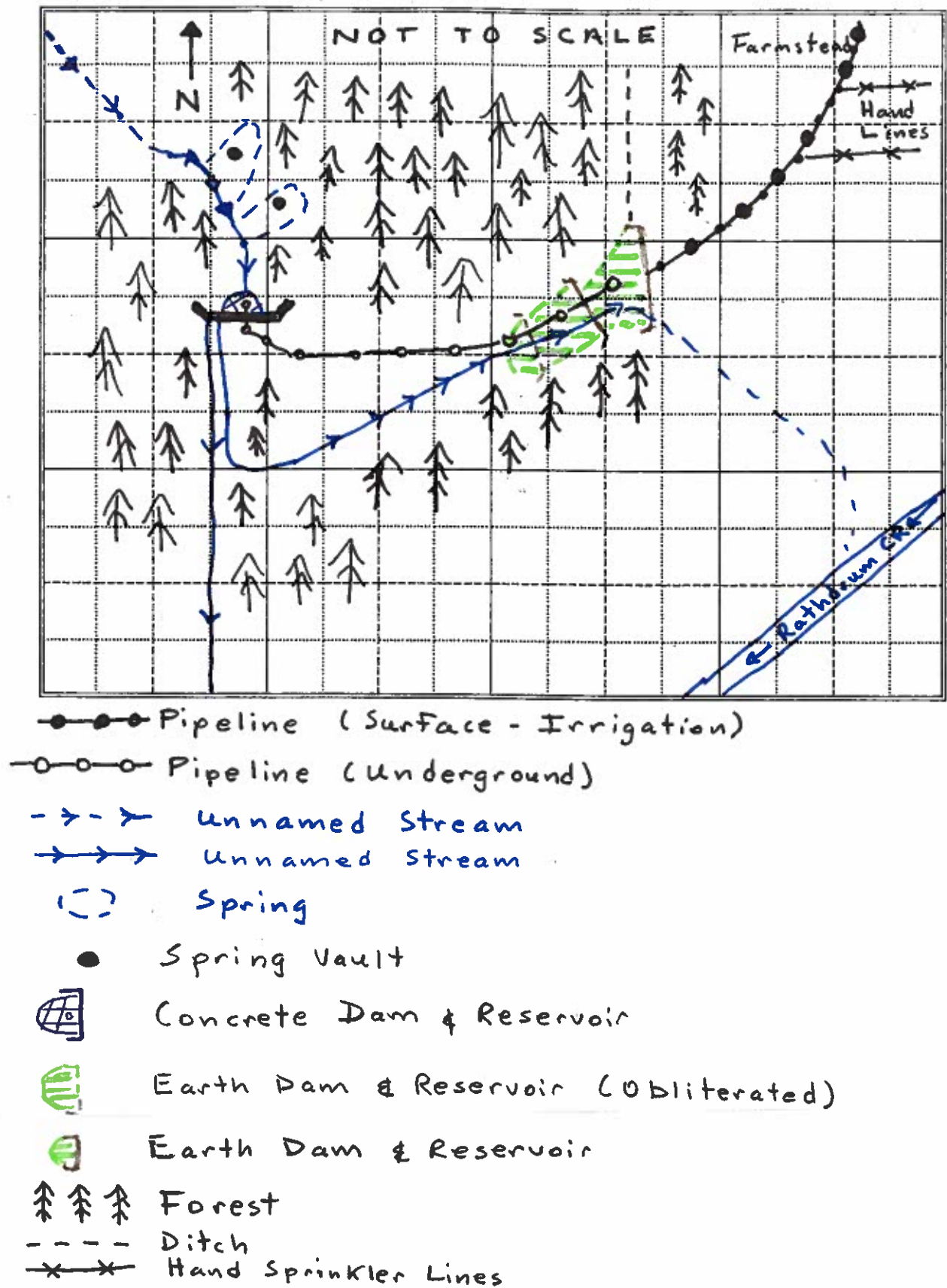
A small concrete dam just west of the Finman property is the site of the POD for decreed Right 95-7592 (.04 CFS 3.7 AF Irrigation & Stockwater) (Conner). Mr. Willadsen (original owner 95-8457) asserted that this dam and a pipe system were over 50 years old and located on his property in a protest against the application for this water right by Williams E. Barnes. Kootenai County Assessor records confirm that the Barnes property was later owned by Paul F. Conner and is now owned by Robert F. Jones ETUX. Mr. Willadsen withdrew his protest against the application and this right was decreed during the Twin Lakes adjudication after an assignment of permit to Mr. Conner.

Evidence that 95-7592 is being used was not seen during the August 2008 Field Exam. The Jones were absent but granted permission via telephone to a neighbor allow IDWR to go through their property to Dam 1 and the Finman property. The dam is located in a ravine. Water was not impounded behind the dam and no pipe to raise water to areas suitable for irrigation was seen near the dam. No portable pump to raise water was present and an electrical control box located next to the dam appeared to have been out of use for some time.

The dam is in good enough condition to impound water if boards are placed in the center slots and a portable pump is used. Dam measurements taken were consistent with the 1982 Field Exam report (IDWR microfiche) (dam 8 feet high 25 feet wide).

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3. Delivery System Diagram:



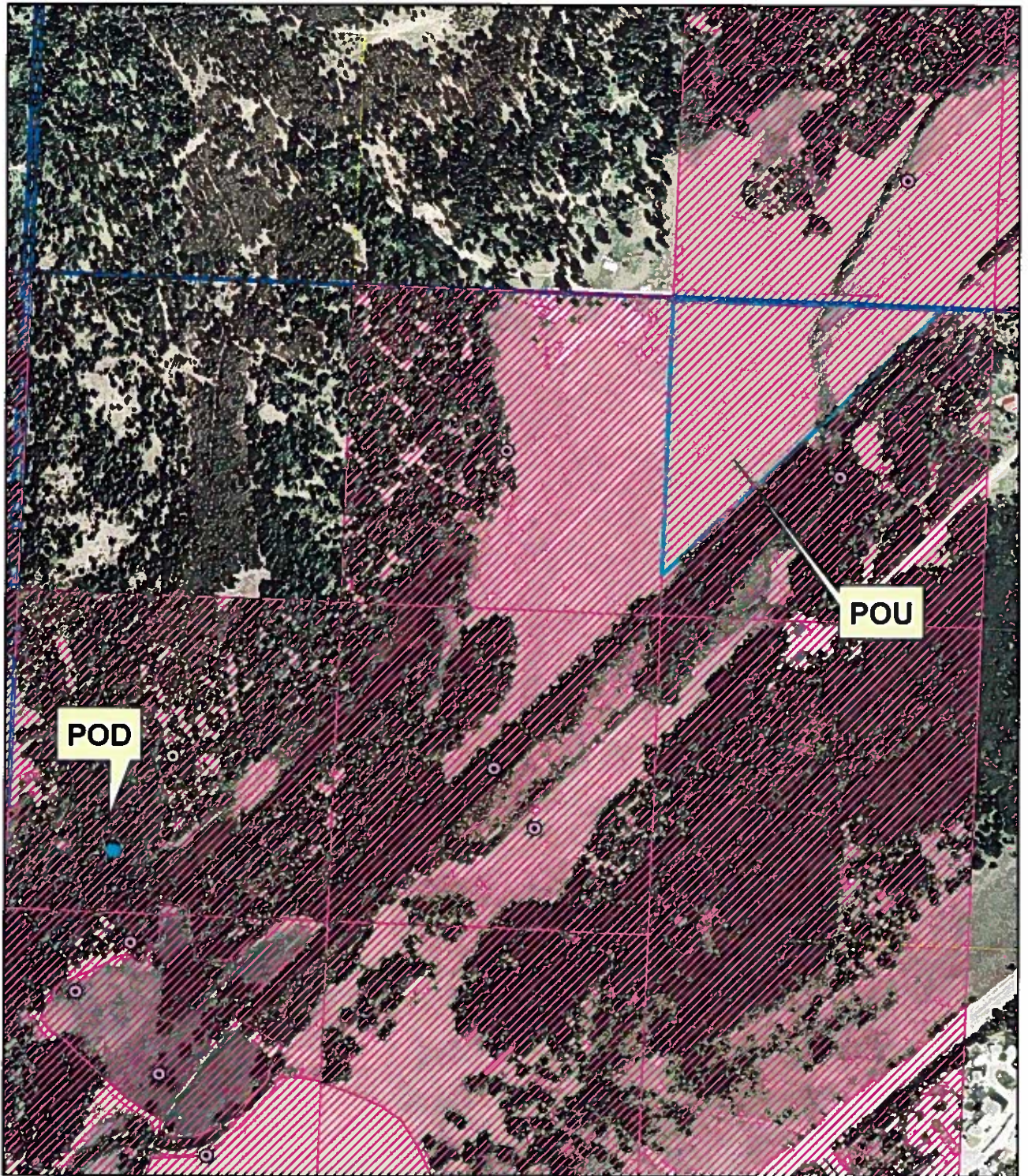
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USGS
'Rathdrum
7.5'
Quadrangle

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5293
47'30"

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Survey Details

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Original Survey • Twp 52N-4W, ID, Boise (North, East boundaries)

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95-8457 Dam 1 Hole AUG 08



95-8457 Dam 1 Pipeline Inlet

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95-8457 Dam 1 Reservoir Rear



95-8457 Cistern Above Pipeline To Ponds

95-8457



95-8457 Vehicle Damage Above Ponds



95-8457 Pond Pipes

95-8457



95-8457 Rear of Pond 2



95-8457 Water in Pond 2

95- 8457



95-8457 Rear of Pond 3



95-8457 Pond 3 Water AUG 08

95-8457



95-8457 Pump Pond 3



95-8457 AUG 08 Pump Pond 3

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95-8457 Pump Detail



95-8457 Bullet Holes

95-8457



95-8457 Twisted Pipe



95-89457 Pipe Damage

95-8457



95-8457 Broken Pipe Ditch Stream 2



95-8457 Faucets Below Pond 3

95-8457



95-8457 Pipeline Different Sizes



95-8457 Pipeline Leak

95-8457



95-8457 Pipeline North to POU



95-8457 View W Farmstead & 95-2011

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95-8457 Water On POU



95-8457 IRRIG At POU

95-8457



95-8457 Cattle On POU

95-8457