

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 94-7535

Exam Date: 07/03/14

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)?
- X
- Y
-
- N

a. **Irrigation of 5 acres or less**

b. Storage of up to 14.6 AF for stockwater purposes only

c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less

d. Other < >

2. Current Owner: Name: Bob Sandau

Owner of Record Correct? X Y NAddress of Record Correct? X Y N

If No: Address

3. Beneficial Use Fees have been paid:
- X
- Y
-
- N Receipt No: N029291

4. **SOURCE****TRIBUTARY**

North Fork Coeur D'Alene River

Coeur D'Alene River

Method of Determination: Info. and GPS from permit holder.

Change in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use:
-
- NO Overlap

Water Right No.	Source	Purpose of Use	Basis
94-7955	Groundwater	Domestic	Recommendation

Comments: 94-7955 is for domestic use for this Place of Use – Lot 4, Block 1, Campbell Meadows.

94-7753- Lots 1-3, Block 1, 94-8280 – Lot 5, Block 1, 94-8434 for Lot 6, Block 1 – Campbell Meadows. 94-8638 – to the west of POU, PIN RP50N04E212800

2. Other water rights with the same point of diversion:
- X
- NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: 94-7955, 94-8280, 94-8434, & 94-8638 are groundwater sources. 94-7955 is for domestic use for this Place of Use. 94-7753 is for same source as this permit but for separate pump in river at adjacent parcel to the East.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
NF Coeur D'Alene River	4		NE	NW	21	50N	04E	B.M.	Shoshone
								B.M.	

Method of Determination: Information provided by permit holder.

Change in POD? Y X N Amendment Required? Y X N2. **PLACE OF USE:** Use: Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	04E	21					1.0												1.0
		Lot #					4												
Total Acres =																			1.0

Method of Determination: GIS Imagery

Comments: Place of use is Block 1, Lot 4 Campbell Meadows. PIN RP009300010040

Change in POU? Y X N Amendment Required? Y X N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 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
	Dayton	2	9K653	Teel	2P104

*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

2. Measurements: < >**E. FLOW CALCULATIONS** Additional Computation Sheets Attached

Measured Method:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. 1.0 acres(0.03 cfs) = 0.03 cfs

Per information from permit holder – 2.0 hp pump. Pump can do 0.08 cfs, See attached pump spreadsheet.

Measurement = 0.03 cfs**Permit allowed = 0.03 cfs****License recommend for 0.0³ cfs.****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.0 \times 3.0 = 3.0$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 92 \times 1.9835 = 5.5$$

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

No volume needed for surface water.

2. Volume Calculations for Other Uses:

G. PURPOSE OF USEIrrigation X Y N # Stock Domestic # of Homes

Other: < >

Change in Purpose of Use? Y X N

Method of Determination: Information provided by permit holder.

If Yes: From Use To Use Amount CFS AFA **H. NARRATIVE/REMARKS/COMMENTS**

Headgate Requirement: 3.0

Consumptive Use :2.0

Season of Use: 04/01 to 10/31 (214 days) – adjusted to 06/01 to 08/31 (92 days) to avoid protest. See note on application for permit.

94-7955 is for domestic use for this Place of Use.

Conditions:

- The approach velocity at POD shall not exceed 0.5 ft per sec.
- Permit condition 7 regarding minimum flows as defined by 94-7341 required to address min. stream flow and avoid protest.
- A fish screen is required of 0.25 inches or smaller mesh –Screen shown in picture provided by permit holder is adequate for this condition.

Have conditions of permit approval been met? ☒ Yes ☐ No

*Volume
NOT needed.*

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	06/01 to 08/31	0.03 CFS	N/A
<u>Totals:</u>		0.03 CFS	N/A
			Per IDAP 37.03.02 j viii

Volume

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 ☒ None

Other: < >

J. AUTHENTICATION

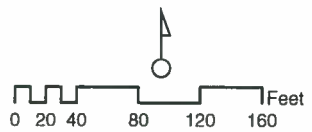
Field Examiner's Name Daniel L. Mohr Date 07/25/14

Reviewer Daniel L. Mohr Date 7-28-14

SCANNED

AUG 01 2014

94-7535



D. Favreau

07/03/14

SESW

16

SESW 2

SWSE,1

SWSE

SESW 3

NWNE

NENW 5

NENW

50N04E

NENW 4

21

NWNE 3

Adjudication Recommendation	94-7990		GIBBONS, WARREN	GROUND WATER	POD			X	0
Adjudication Recommendation	94-7990		GIBBONS, WARREN	GROUND WATER	POU			X	0
Adjudication Recommendation	94-7991		FLECHSING, BETTY; FLECHSING, STEPHEN	GROUND WATER	POD	X			0
Adjudication Recommendation	94-7991		FLECHSING, BETTY; FLECHSING, STEPHEN	GROUND WATER	POU	X			0
Water Permit	94-8280	N	CHARITON, KEN; CHARITON, TERESA; DEITZ, EUGENE	GROUND WATER	POD		X		0
Water Permit	94-8280	N	CHARITON, KEN; CHARITON, TERESA; DEITZ, EUGENE	GROUND WATER	POU		X		0
Adjudication Recommendation	94-8434		HOUCHIN, GEORGE R	GROUND WATER	POD		X		0
Adjudication Recommendation	94-8434		HOUCHIN, GEORGE R	GROUND WATER	POU		X		0
Adjudication Recommendation	94-8638		CDA RIVER LODGE LLC	GROUND WATER	POD		X		0
Adjudication Recommendation	94-8638		CDA RIVER LODGE LLC	GROUND WATER	POU		X		0
Adjudication Recommendation	94-8944		JENNINGS JR, EVERETT; JENNINGS, DAWN	GROUND WATER	POD	X			0
Adjudication Recommendation	94-8944		JENNINGS JR, EVERETT; JENNINGS, DAWN	GROUND WATER	POU	X			0

[illegible]

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 94-7535
 Reviewer: D. Favreau
 Date of Review: 7/25/2014

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	2	2	2
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	40	40	40
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.09 42	0.08 36	0.07 31
			0.08 36.09

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

The horsepower was supplied by the owner of the system . The pressure was estimated by using the standard for pressure tank turn on and shut off of 40 to 60 psi. The lift was estimated using the maximum deliniation between the topo map's elevation lines. The pump exceeds the maximum allowed by the permit.

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This item has been discontinued and is unavailable for purchase. Check the Alternate Products selection below for options. For more information call 1-800-GRAINGER (472-4643).

Pump, Sprinkler, 2 HP

DAYTON

Price:
NA / each

Item no longer
available

Some discontinued items may be available through your local branch.

☐ Add **Repair & Replacement Coverage** for each.

Required Accessories

☐ **Manual Motor Switch,30A,600VAC/230VDC,2P** | Product # **1H406** | **\$59.10**

☐ **Sealant,Thread** | Product # **4X222** | **\$11.83**

[View More Required Accessories](#)

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Item # **2P104**Mfr. Model # **2P104**UNSPSC # **40151510**Catalog Page # **N/A**Shipping Weight **79.05 lbs.**

Country of Origin Varies | *Country of Origin is subject to change*
[Repair Parts Available for this item](#)

Technical Specs

Item	Lawn Sprinkler/Booster Pump	GPM @ 35 PSI	4743373227
Type	Self-Priming	GPM @ 40 PSI	3731262115
HP	2	GPM @ 45 PSI	2418127-
Phase	1	GPM @ 50 PSI	104--
Voltage	115/230	Max Pressure (PSI)	54525048
Amps	20.7/10.4	GPM of Water @ 2 Ft of Head	180
Wetted Materials	Cast Iron, 300 SS, Buna-N, Carbon, Ceramic	Suction Lift (Ft.)	510152025
Hz	60	Max GPM @ Head (Ft.)	92 @ 23
Inlet (In.)	1-1/2	Best Efficiency GPM @ Head (Ft.)	50 @ 85

Outlet (In.)	1-1/2	Min. GPM @ Head (Ft.)	10 @ 122
Motor Enclosure	ODP	Max. Specific Gravity	1.0
NEMA/IEC Frame	56J	Max. Case Pressure (PSI)	150
Service Factor	1.2	Max. Fluid Viscosity	31 SSU
Volute Material	Cast Iron	Inlet Pressure (PSI)	93
Screw Material	Plated Steel	Bearing Type	Double Shielded Pre Lubricated Ball
Seal Type	Buna N O-Ring Casing, Mechanical	Agency Compliance	Motor Only UL & CSA
Seal Application	Nonflammable Liquids Compatible with Pump Components	For Use With	Nonflammable Liquids Compatible with Pump Component Materials
GPM @ 10 PSI	8986838077	Height (In.)	10-11/16
GPM @ 15 PSI	8279757269	Length (In.)	18-3/4
GPM @ 20 PSI	7571676460	Width (In.)	8
GPM @ 25 PSI	6662595450	Includes	Buna N and Ceramic Parts
GPM @ 30 PSI	5753494239		

Compliance and Restrictions

This product is not intended for potable water applications (human consumption – drinking and cooking) and has not been designed to be compliant with the "Safe Drinking Water Act" requirements for low lead in potable water applications. This item is for use only in non-potable (non-human consumption) water applications.

This item is restricted for conveying or dispensing water for potable use (human consumption) in states that require 3rd party certification of compliance with the "Safe Water Drinking Act" (CA, LA, MD, VT).

Repair Parts

✓ Displaying repair parts for model: 2P105

1 Part Available

[+Add to List](#) [Add to Cart](#)

Mfr. Part#	Part Description	Brand	Item#	Availability ⓘ	Price	Qty
2UV51	Flap Valve Assembly, Buna N	DAYTON	2UV51	This item has been discontinued and is unavailable for purchase.	N/A	

1 Part Available

[+Add to List](#) [Add to Cart](#)

Alternate Products

☐ Compare



Item # **5RWG9**
Pump, Sprinkler, 2 HP, 1 Ph

DAYTON
Price

☐ Compare



Item # **1N436**
Pump, Centrifugal, 3 HP

GOULDS WATER TECHNOLOGY
Price

☐ Compare



Item # **1N438**
Centrifugal Pump, 2 HP

GOULDS WATER TECHNOLOGY
Price

\$808.00 / each

\$1,631.00 / each

\$1,054.00 / each

Related Products



Item # **6P854**

Nipple, 1-1/2 In., 2 In., Galv Welded Steel

GRAINGER APPROVED VENDOR

Price:
\$2.88



Item # **3P572**

Suction Hose, 1-1/2 In x 20 ft, Black

GOODYEAR ENGINEERED PRODUCTS
Price:
\$228.50



Item # **2P566**

Suction Hose, 1-1/2 In x 20 ft, Green

GOODYEAR ENGINEERED PRODUCTS
Price:
\$76.15



Item # **3P574**

Discharge Hose, 1-1/2 In x 25 ft

GOODYEAR ENGINEERED PRODUCTS
Price:
\$179.00

Customers Also Purchased

1 of 6 Prev | Next



Submersible Sewage Pump, 0.5HP, 115V, 42 ft

Item # **2P555**

ZOELLER

Price:
\$1188.00

[Add to Cart](#)



Manual Motor Switch, 30A, 600VAC/230VDC, 2P

Item # **1H406**

SQUARE D

Price:
\$59.10

[Add to Cart](#)



Pump, Centrifugal, 1.5hp

Item # **1N439**

GOULDS WATER TECHNOLOGY

Price:
\$738.50

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Motor, 2hp, Jet Pump

Item # **5K476**

DAYTON

Price:
\$462.75

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Alternate Search Terms

[Centrifugal Pumps \(1408\)](#)

[Pressure Boosters \(703\)](#)

[Sprinkler Pumps \(108\)](#)

[Liquid Transfer Pumps \(1163\)](#)

[Straight Centrifugal Pumps \(471\)](#)

[Lawn Sprinkler Pumps \(103\)](#)

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RECEIVED

JUL 24 2014

DEPARTMENT OF
WATER RESOURCES

You can request that IDWR personnel go into the field to collect this information accompanied by yourself or your representative. For this to occur, please contact me by July 30, 2014. If you would like your representative to be present, please have the name, telephone number, and email of your representative. Be aware that you and/or the representative must be available to be contacted and for scheduling of the required visit within a timely manner.

Please provide the requested information by July 30, 2014. If I do not receive the requested information or have been contacted by you by July 30, 2014, I will take action to void your permit under the provision of Section 42-219(8) of the Idaho Code.

If you have any questions, please contact me at 208-287-4938. Thank you for your attention to this matter.

7-15-14

Respectfully,

Danielle Favreau

Danielle Favreau
GIS Analyst
Technical Services Bureau

Enclosures

Brand Name
→ Teel

Dayton
7K653.

2 H.P.

1103052449
Reference #

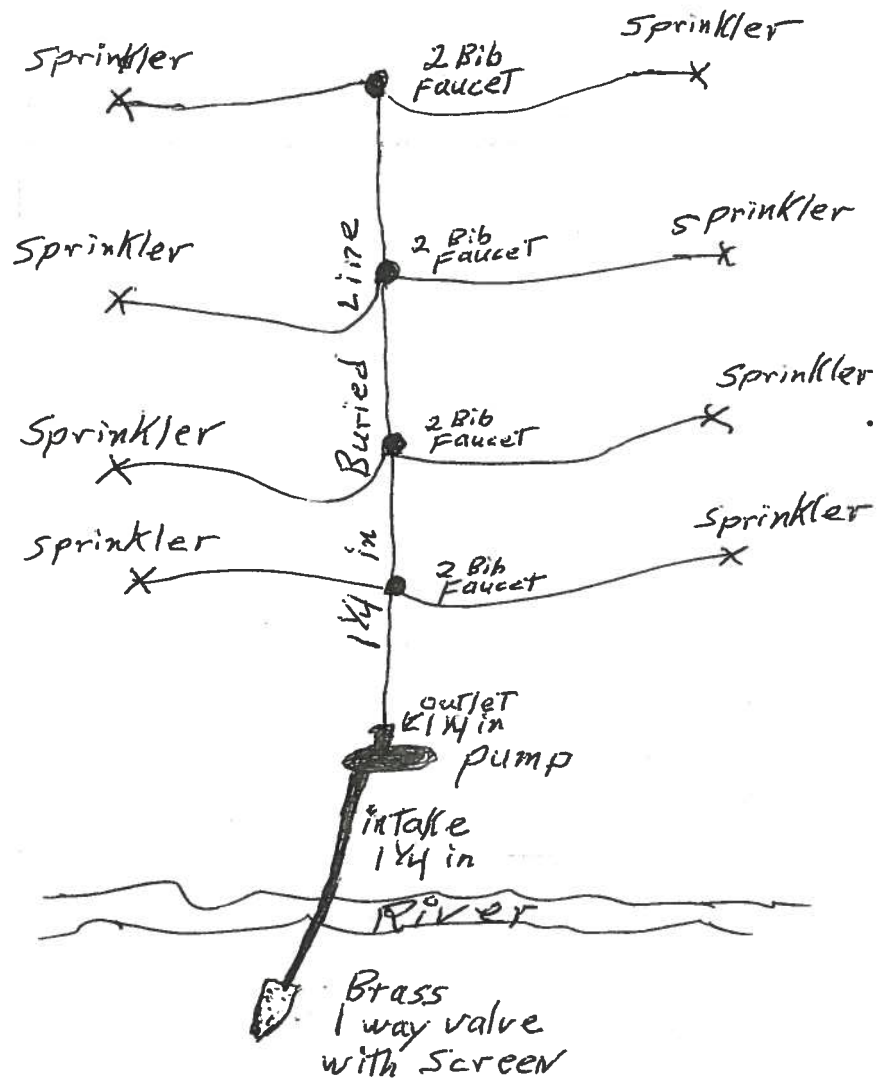
Intake $1\frac{1}{4}$ in

→ Outlet $1\frac{1}{4}$ in
→ $\frac{5}{8}$ in Garden Hose

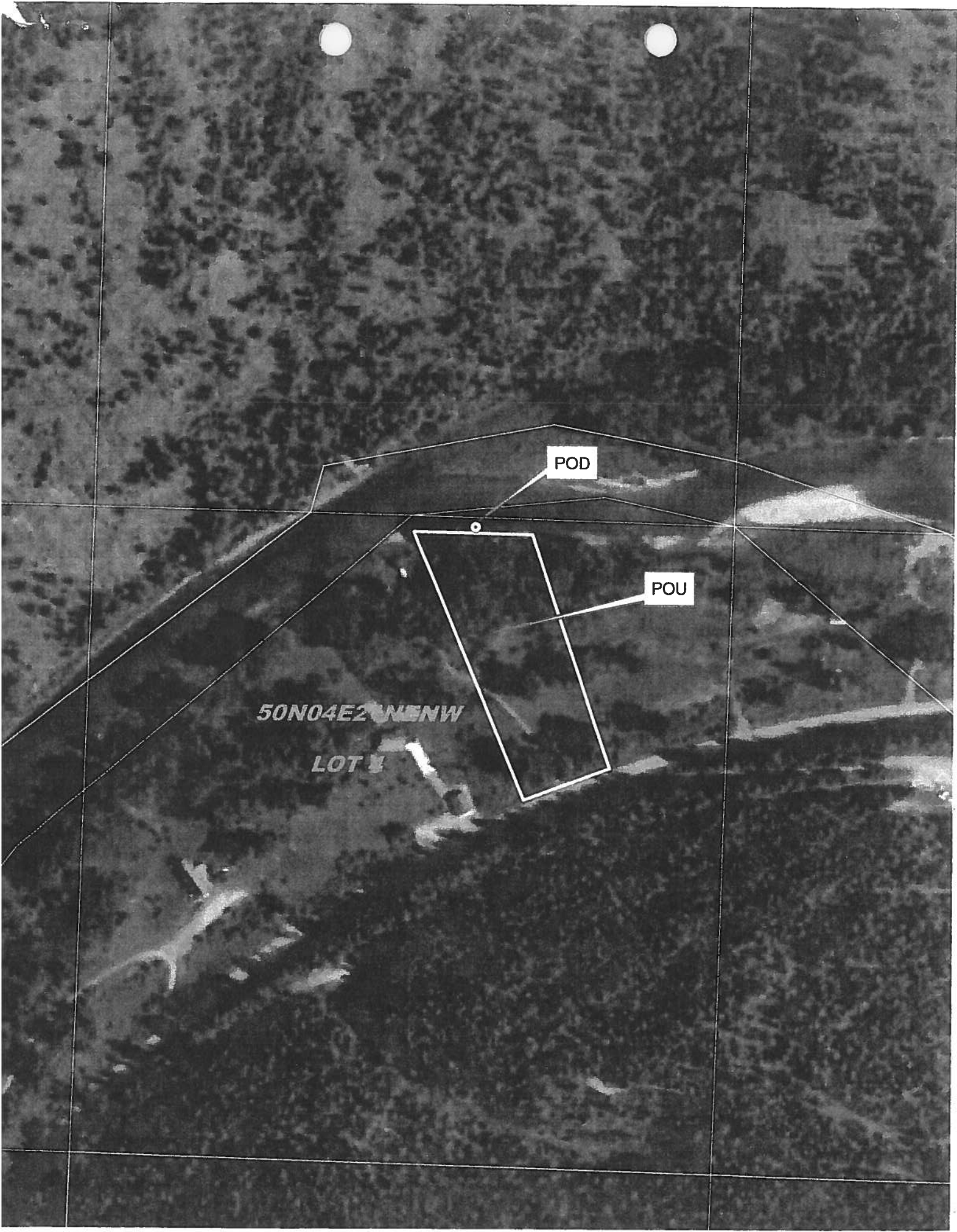
Danielle,

If you have any
question's, please call
me at 208-664-9311

Bob Sandau



Run 4 Sprinklers at once
approx $2\frac{1}{2}$ gal per minute.
= 10 gal per minute



POD

POU

50N04E2 WENW

LOT 1

94-7535

POD

0 20 40 80 120 160 Feet

D. Favreau

07/03/14

SESW

16

SESW 2

SWSE 1

SWSE

SESW 3

NWNE

NENW 5

NENW

50N04E

NENW 4

21

NWNE 3

