

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

A. GENERAL INFORMATIONPermit No: 94-7570

Exam Date: 05/05/14

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: Holden and Linda Mitchell

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: N030015

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:
- X
- NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: The POU for 94-7570 is in lot 5 of the North Fork Estates SubDivision (RPO246000B0050). The following rights are for irrigation use in the North Fork Estates subdivision but in different subdivision lots than the POU of 94-7570: 94-7545 (SD lots 3 & 4), & 94-7561 (SD lot 2). The POU for 94-7560 is to the East of the POU for 94-7570 outside of the North Fork Estates Subdivision (in RP50N02E78900). Based on field exam in file of 94-7223, the POU for 94-7223 is West of the POU for 94-7570 in North Fork Estates Lot 1 or further East. See maps.

The following rights are for domestic use only in different parcels than 94-7570: 94-2199, 94-7853, 94-8044, 94-9357, 94-8495, 94-8755, 9-8800, 94-8954, & 94-9235. The following right is for domestic and stock use only in a different parcel than 94-7570: 94-8628.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: 94-7545, 94-7560 & 94-7561 are PODs in the same subdivision as 94-7570 and for the same source. Based on the information in the water right/permit backfiles, Each right has a different POD. There does not appear to be a shared system for irrigation the North Fork Estates Subdivision.

Based on field exam in file of 94-7223, the POD for 94-7223 is West of the POD for 94-7570. The POD for 94-8044 is East of the POD of 94-7570. The POD for 94-2628 is West of the POD of 94-7570. The following rights have PODs with sources different than that of 94-7570: 94-7853, 94-8357, 94-8495, 94-8755, 94-8800, 94-8354, & 94-9234

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Coeur D'Alene River	2		SE	SE	27	50N	02E	B.M.	Shoshone
								B.M.	

Method of Determination: Information and GPS provided by permit holder. There is a typo in the permit holder GPS, correct

coordinates are N47 38.826' W116 11.060'

Change in POD? X N Amendment Required? X N

2. **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	02E	27														0.3	0.1	0.4	
		Lot #														2	2		
																Total Acres =		0.4	

Method of Determination: GIS Imagery. Place of use is Block B, Lot 5 North Fork Estates.

Comments: Per taxlot data and confirmed through GIS measurement, the parcel owed and irrigated by permit holder is only 0.4 acres in size.

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

* 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. $0.4 \text{ acres}(0.03 \text{ cfs}) = 0.01 \text{ cfs}$

Per original application – pump to 1.0" poly pipe. $Q = 5(3.14) (((1.0/12)/2)^2) = 0.03$ cfs

Per information from permit holder – 1.0 hp pump. Pump can do 0.04 cfs, See attached pump spreadsheet.

Measurement = 0.01 cfs

Permit allowed = 0.03 cfs

License recommend for 0.01 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.4 \times 3.0 = 1.2$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.01 \times 200 \times 1.9835 = 4.0$$

$V = \text{Smaller of } V_{I.B.} \text{ and } V_{D.B.} = \underline{\hspace{2cm}}$

No volume needed for surface water.

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation ☒ 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 04/15 to 10/31 (200 days) to settle protest. See letter dated 07/02/2013.

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 settle protest.
- A fish screen is required of 0.25 inches or smaller mesh – per consultation with Dan Nelson on 06/16/14, screen shown in picture is adequate for this condition.

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

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	04/15 to 10/31	0.01 CFS	N/A
<u>Totals:</u>		0.01 CFS	N/A

2. Recommended Amendments

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

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ X None

Other: < >

J. AUTHENTICATION

Field Examiner's Name Donille Farnum Date 06/16/14

Reviewer Daniel Nelson Date 6-23-14

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 94-7570
 Reviewer: D. Favreau
 Date of Review: 6/16/2014

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	1	1	1
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	40	40	40
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.05 21	0.04 18	0.03 15
			0.04 18.05

The above calculates the formula =

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

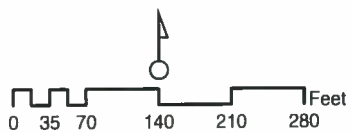
Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

The horspower was supplied by the owner of the system through a picture of the pump. 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.

Process	Basin Sequence	Draft	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres	
Water Right	94-2199	N	SIPILA, MATT	UNNAMED STREAM	POU	Panestix - 2 QQS - to East probably																X	0
Water Right	94-7223	N	WATTS, HENRY C	COEUR D ALENE RIVER	POD	I																X	0
Water Right	94-7223	N	WATTS, HENRY C	COEUR D ALENE RIVER	POU	Based on field exam - for RPD 246000B0010 and/or RP50N02E278500																	1
Water Right	94-7545	N	KIRSCH, JOHN D; KIRSCH, TANYA J	COEUR D ALENE RIVER	POD	RPD 246000B0030 I																X	0
Water Right	94-7545	N	KIRSCH, JOHN D; KIRSCH, TANYA J	COEUR D ALENE RIVER	POU	RPD 246000B0040 1 Acre lots 3+4 North Fork Eskela																1.0	1
Water Permit	94-7560	Y	JOST, RICK; MACDONALD, DON	COEUR D ALENE RIVER	POD	I																X	0
Water Permit	94-7560	Y	JOST, RICK; MACDONALD, DON	COEUR D ALENE RIVER	POU	RP 50N02E278500 overlap of 94-7853 west of POU																1.0	1
Water Permit	94-7561	N	BRUCE, CHERYL; BRUCE, NEIL	COEUR D ALENE RIVER	POD																	X	0
Water Permit	94-7561	N	BRUCE, CHERYL; BRUCE, NEIL	COEUR D ALENE RIVER	POU	RPD 246000B0020 I Lot 2 North Fork Eskela																0.5	0.5
Water Permit	94-7570	N	MITCHELL, HOLDEN Y; MITCHELL, LINDA SUE	COEUR D ALENE RIVER	POD	I																X	0
Water Permit	94-7570	N	MITCHELL, HOLDEN Y; MITCHELL, LINDA SUE	COEUR D ALENE RIVER	POU	RPD 246000B0050 Lot 5 North Fork Eskela																0.3 0.4	0.7
Adjudication Recommendation	94-7853		JOST, RICK; MAC DONALD, DON	GROUND WATER	POD	N/A																X	0
Adjudication Recommendation	94-7853		JOST, RICK; MAC DONALD, DON	GROUND WATER	POU	RP 50N02E278900 D west of POU																X	0
Water Right	94-8044	N	LISH, ARLEN; LISH, NANCY	COEUR D ALENE RIVER	POD	At/near POD of 94-7223 per field exam																X	0
Water Right	94-8044	N	LISH, ARLEN; LISH, NANCY	COEUR D ALENE RIVER	POU	RPD 246000B010 D North Fork Eskela lot 1																X	0
Adjudication Recommendation	94-8357		HARJU, SETH; HARJU, TARITA	GROUND WATER	POD	N/A																X	0
Adjudication Recommendation	94-8357		HARJU, SETH; HARJU, TARITA	GROUND WATER	POU	RP 50N02E278500 D Irr. by 94-7223?																X	0
Adjudication Recommendation	94-8495		ERNEST N LOZENNA HANSEN TRUST	GROUND WATER	POD	N/A																X	0
Adjudication Recommendation	94-8495		ERNEST N LOZENNA HANSEN TRUST	GROUND WATER	POU	RP 50N02E279160 D East of POU																X	0
Adjudication Recommendation	94-8628		HANSEN, LOEANNA	COEUR D ALENE RIVER	POD																	X	0
Adjudication Recommendation	94-8628		HANSEN, LOEANNA	COEUR D ALENE RIVER	POU	RP 50N02E279160 stock East of POU																X	0
Adjudication Recommendation	94-8755		ANDERSON, CONRAD S	SPRING	POD	N/A																X	0
Adjudication Recommendation	94-8755		ANDERSON, CONRAD S	SPRING	POU	N/A Across River																X	0
Adjudication Recommendation	94-8800		KERNS, EDWARD P	GROUND WATER	POD	N/A																X	0
Adjudication Recommendation	94-8800		KERNS, EDWARD P	GROUND WATER	POU	RP 50N02E278800 D west of POU																X	0

94-7570



D. Favreau

05/05/14

NWSE

NESE 1

SESE 2

27

50N02E

SWSE 2

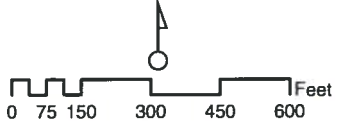
SESE

SESE 3

SWSE

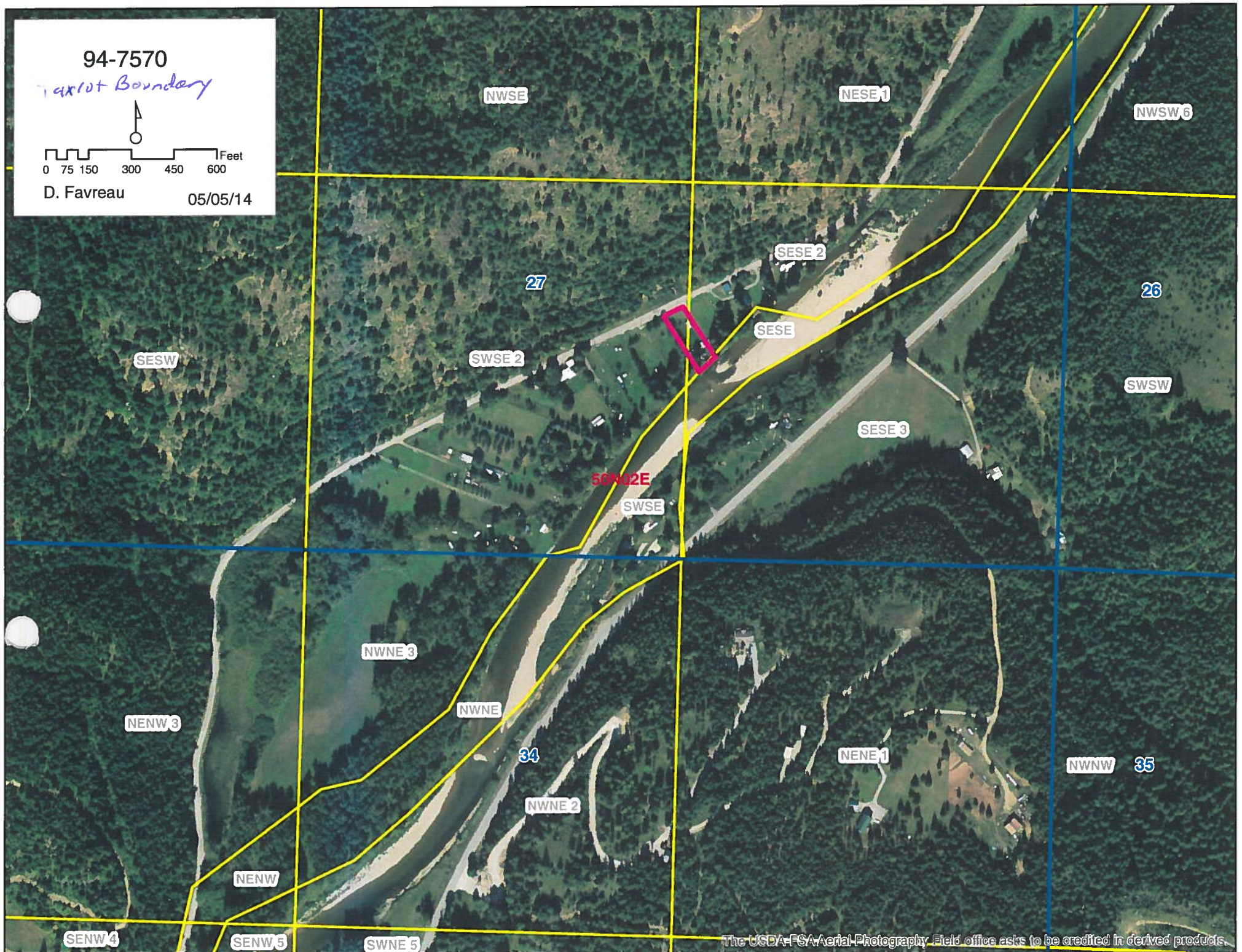
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Taxlot Boundary

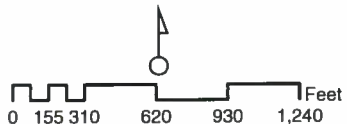


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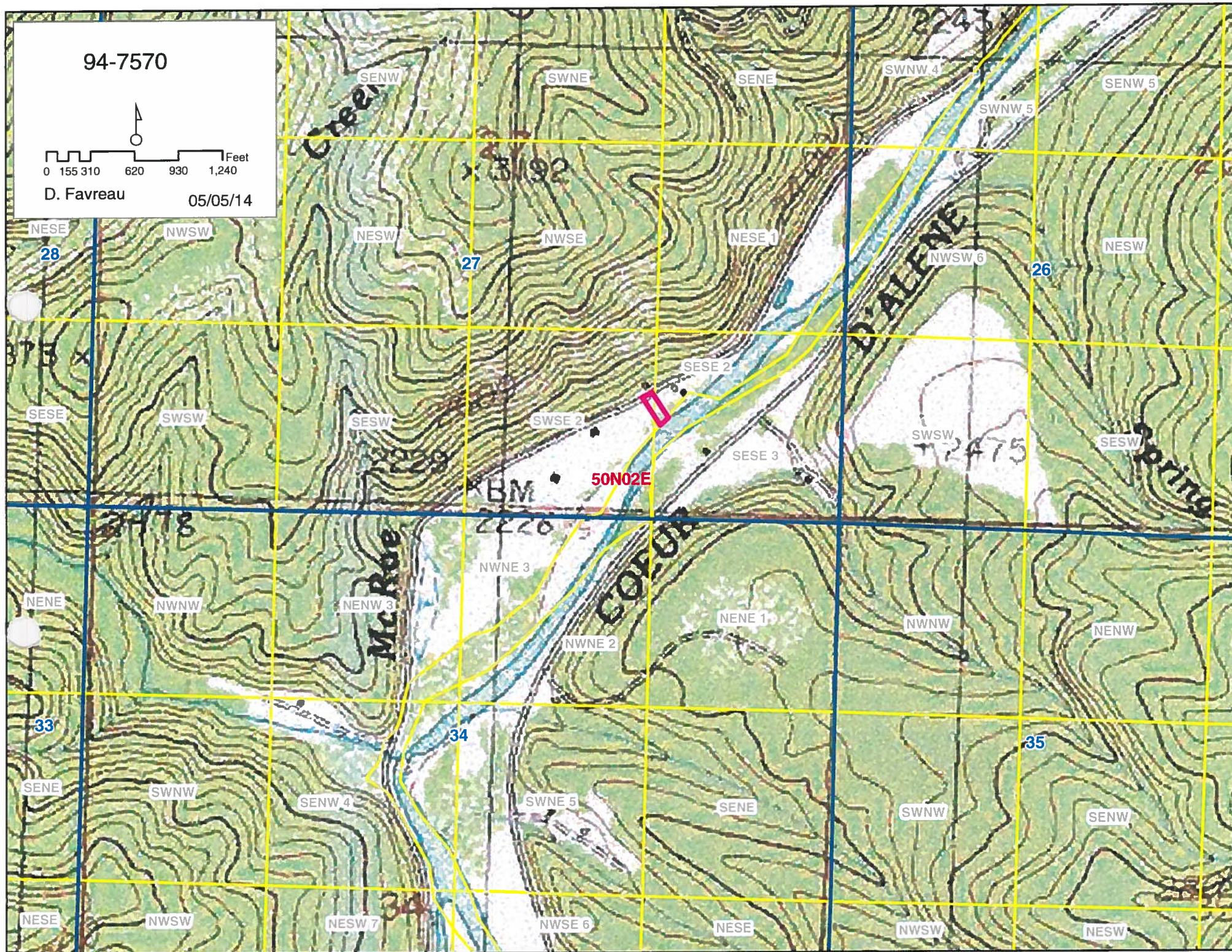


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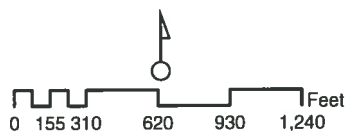
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Adjudication Recommendation	94-8954
Adjudication Recommendation	94-8954
Adjudication Recommendation	94-9234
Adjudication Recommendation	94-9234

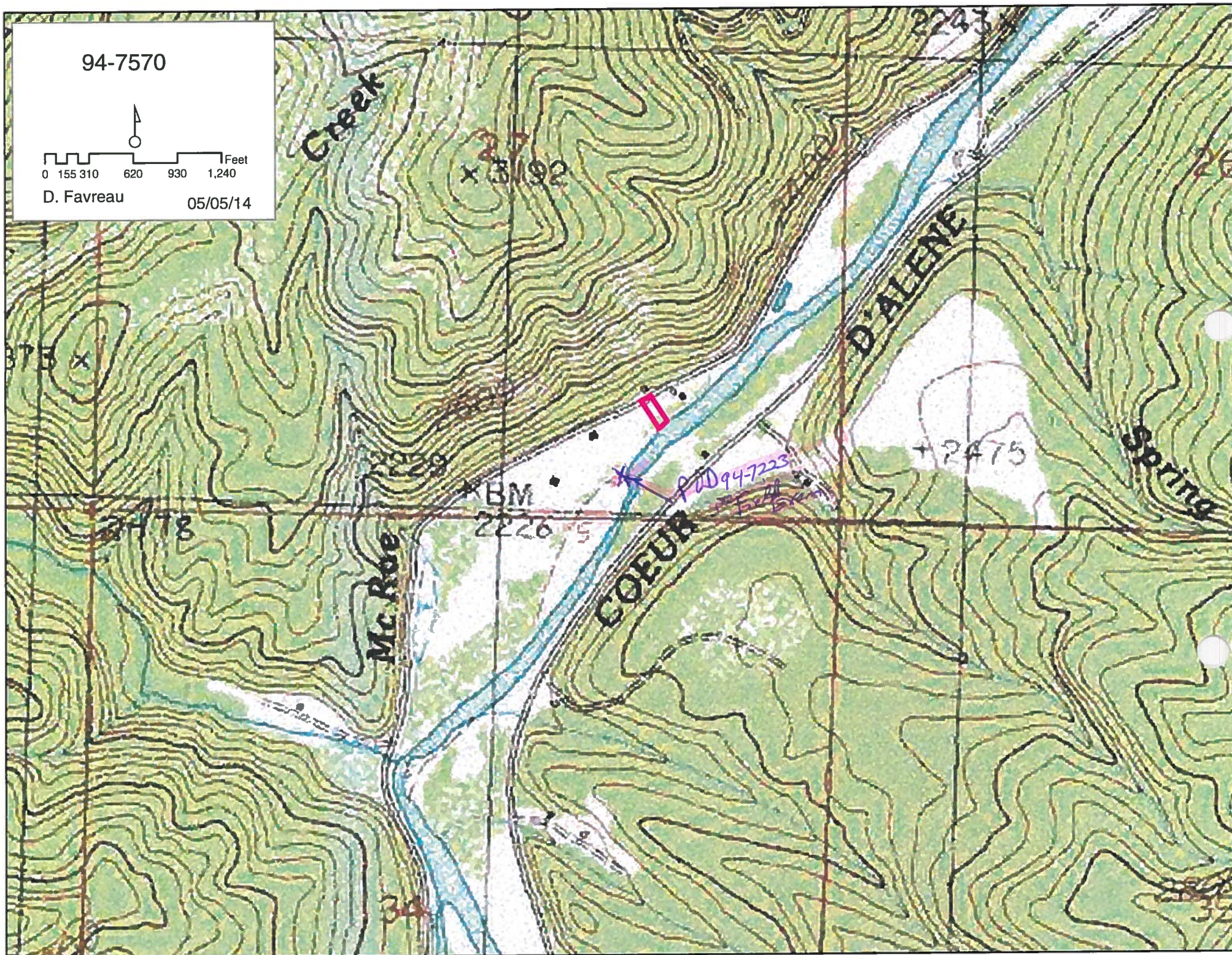
WATTS, LAWANNA; WATTS, SHERMAN	GROUND WATER	POD	N/A					X	0
WATTS, LAWANNA; WATTS, SHERMAN	GROUND WATER	POU	R PSONOZE278600	POD CDN	APSONOZE278700 -wrong parcel?			X	0
WATTS, SHERMAN	GROUND WATER	POD	N/A					X	0
WATTS, SHERMAN	GROUND WATER	POU	R PSONOZE278700		D	west of POU		X	0

94-7570



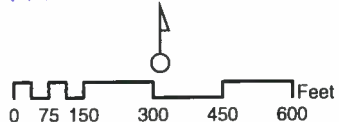
D. Favreau

05/05/14



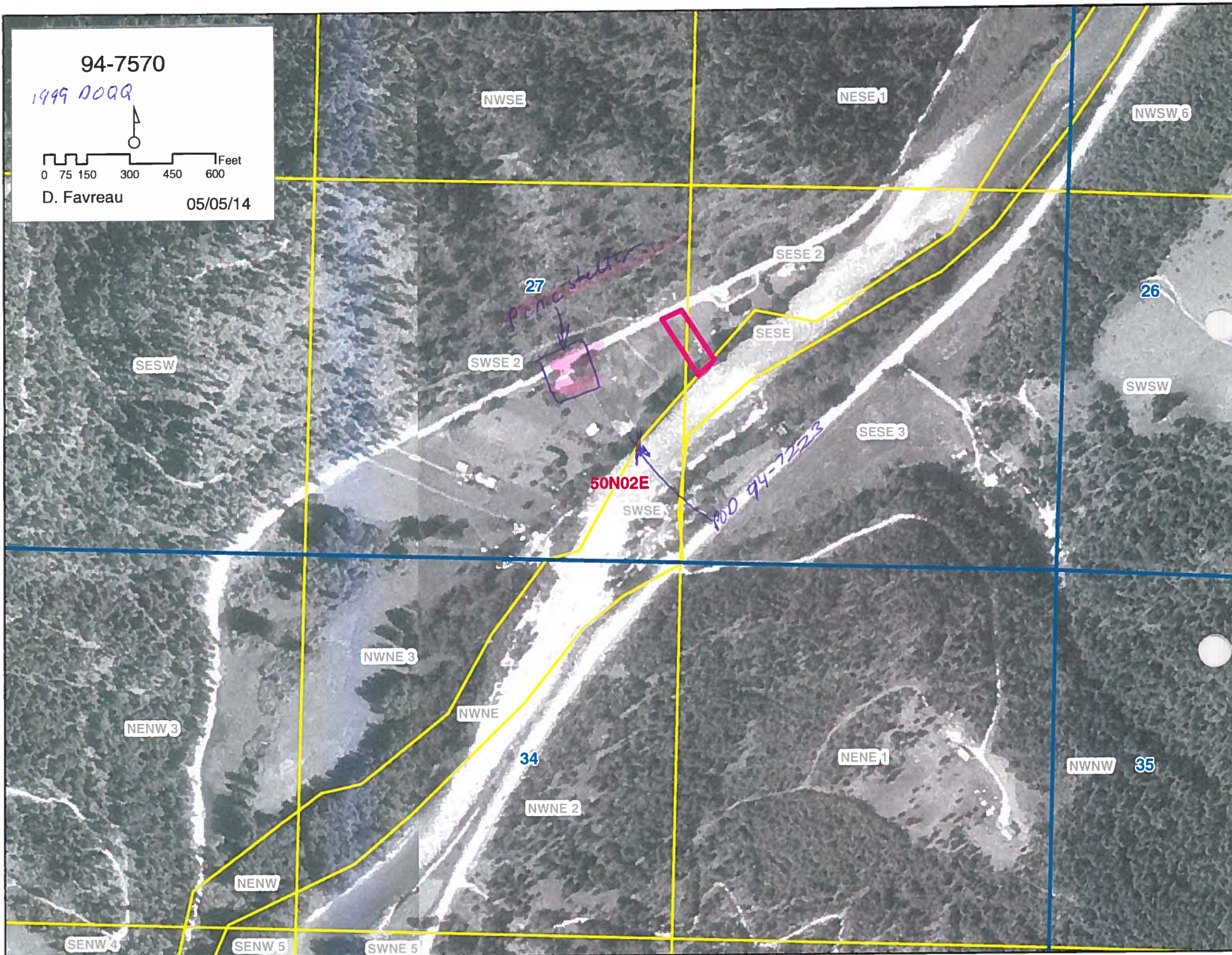
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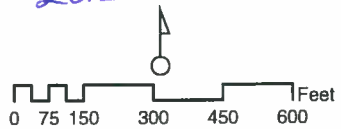
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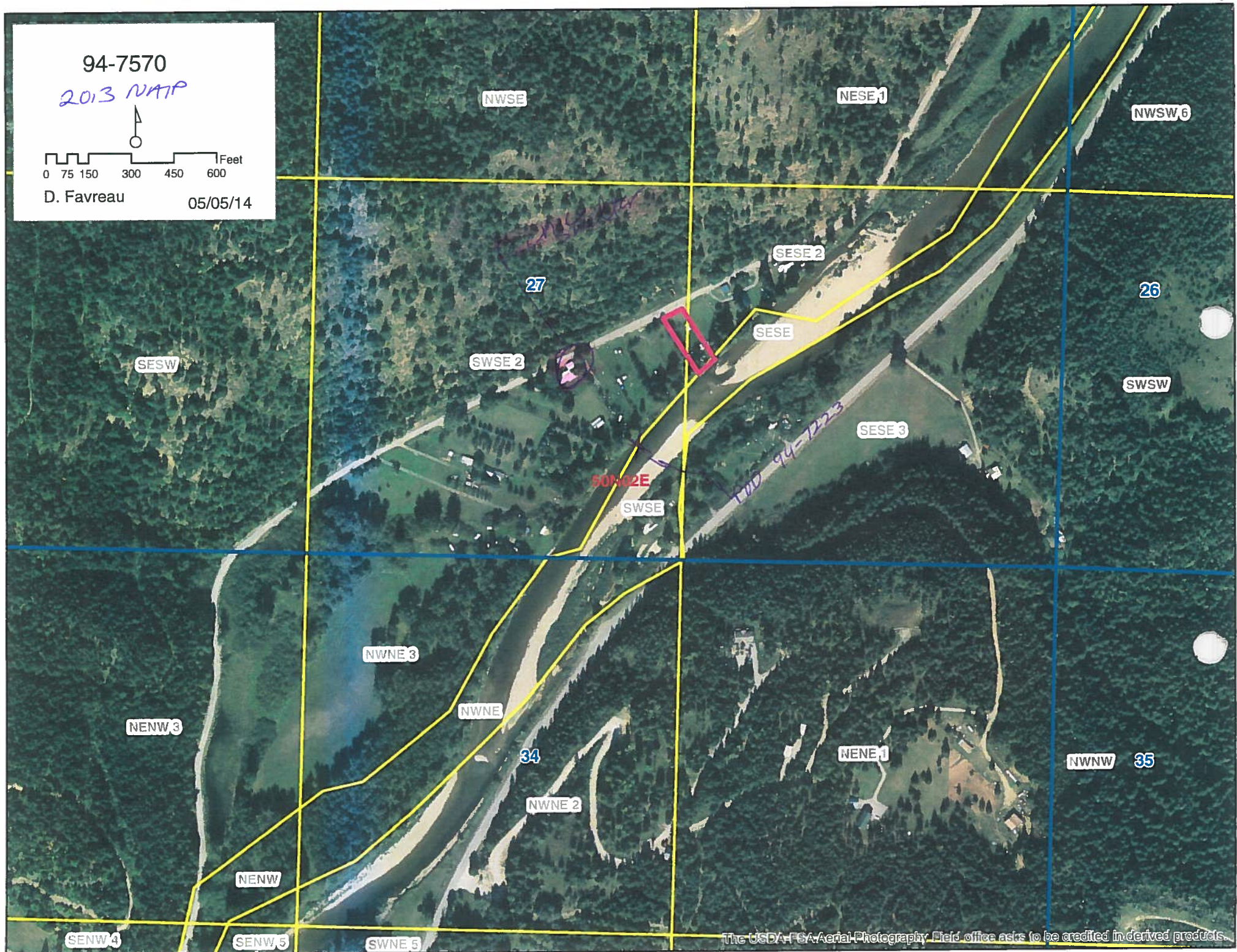
94-7570

2013 NATP



D. Favreau

05/05/14



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 94-7223

1. Owner: Henry C. Watts Phone No. 783-3533
Current Address: Box 7 Smelterville Id 83868

2. Accompanied by: NO ONE EXAM. DATE: 7/6/89

Address: _____ Phone No. _____

Relationship to Permit Holder: _____

3. Source: N.F. COEUR D'ALENE R. tributary to COEUR D'ALENE R.

B. OVERLAP REVIEW

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

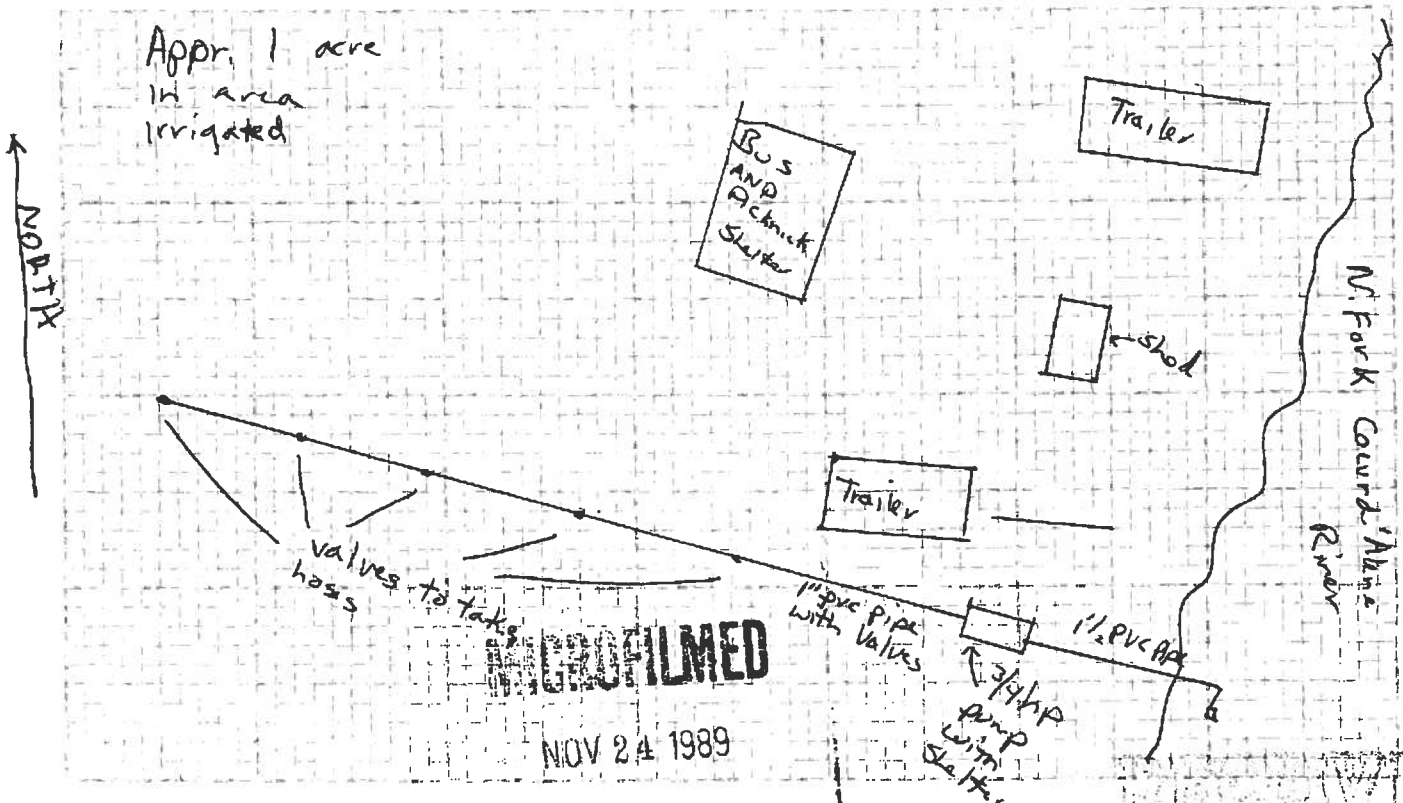
☐ Copies Attached

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" = NTS

2. ☐ Copy of U.S.G.S. Quadrangle Attached ☐ Aerial Photo Attached
Showing location(s) of point(s) of diversion and (required for irrigation of 10 acres or more).
place(s) of use (required).

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

Department of Water Resources

JUN 26 1989

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

1 1/2 pick up line from river to pump shelter ~~area~~ where
a 3/4 hp motor pumps water through a 1" line
to garden and surrounding area of 1 acre

☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Montgomery Ward	3/4	T7	Montgomery Ward	1"

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
2			SW	SE	27	50N	2E	Shoshone	MAP

6. Place(s) of Use:

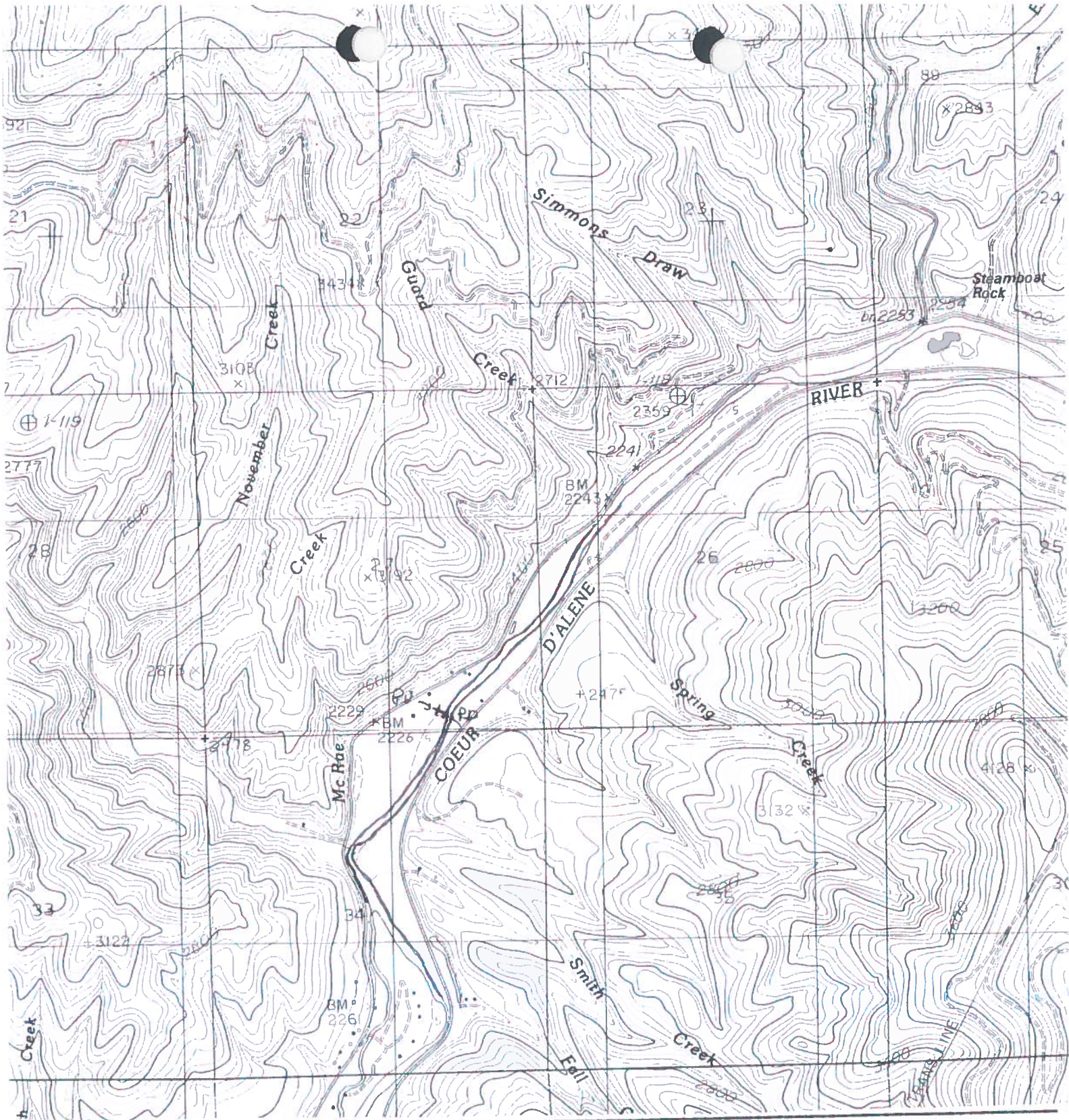
Indicate Method of Determination MAP

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
SON	2E	27															1		1

Do not use this space

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PERMIT HOLDER HENRY C. WATTS PERMIT # 94-7223

P D TWP 50N RGE 26E SEC 27 5N 5E GL-2

P/U TWP RGE SEC 51NE

REFILMED
IV 24 1999

SOURCE COEUR D'ALENE R. N.F. TRIBUTARY TO COEUR D'ALENE R.

MAP PLOT 23 IRR. ACRES 1 USGS QUAD 15-9 SCALE 7 1/2" = 1 MI

Do not use this space

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D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

5 sprinklers @ 2 gpm @ 30 psi = 10 gpm
= .02 cfs



E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

$Q = .02 \text{ cfs}$

2. Alternate Method for Checking Purposes:

$\frac{8.8 (.75) 80\%}{2.3 (30) \times 10} = 0.07 \text{ cfs}$ } JK

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \frac{3}{2.5} \text{ a/c}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 9.7 \text{ a/c}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3 \text{ a/c}$

2. Volume Calculations for Other Uses:

MICROFILMED

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H. REMARKS AND OVERLAP REVIEW ANALYSIS

NONE

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	3/15	11/15	.02 cfs	3 afa
Totals:			.02 cfs	3 afa

2. Recommended Amendments

- ☐ Change P.D. as reflected above
☐ Change P.U. as reflected above

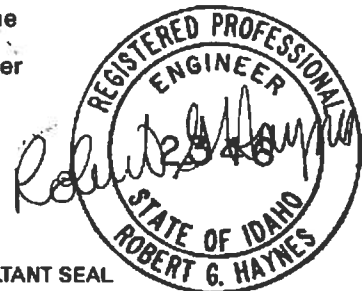
- ☐ Add P.D. as reflected above
☐ Add P.U. as reflected above

- ☒ None
☐ Other

J. AUTHENTICATION

Field Examiner's Name Louis Sukovaty
Signature [Signature]
Certification Date 5/15/88
Field Report Preparation Date 7/6/88

CONSULTANT SEAL



K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

JOM 7/13/89

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JUN 16 2014

DEPARTMENT OF
WATER RESOURCES

RE. Request for information

Water appropriation Permit No 94-750

Danielle Favreau

My wife and I are snow birds and just now are returning home.
The information you requested is as follows;

1. The GPS coordinates are, as close as I can tell,
N 47 38.286'
W 116 11.060
This point is indicated by the green dot on the aerial picture you sent me.
2. I have included a picture of the pump and the point of diversion.
3. The pump is a shallow well 1 HP Pump Model 47906 whose serial no is
#07070800088
4. The size of both intake and outflow is 1" poly pipe and runs to 4 standard valves which
distribute water through 3/4 inch rubber hoses and standard lawn sprinklers as needed.
We can run 3 hoses at once but the size of the pump limits the amount of watering we
can do at once.
5. The screen on the end of the intake hose is shown by picture and is less than the
standard you set out.

Should you need further information contact me at 208-755-3368

Holden Mitchell
7304 N Valley St
Dalton Gardens Id, 83815

Holden Mitchell
June 9, 2014

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JUN 16 2014

DEPARTMENT OF
WATER RESOURCES

CENTRAL MACHINERY

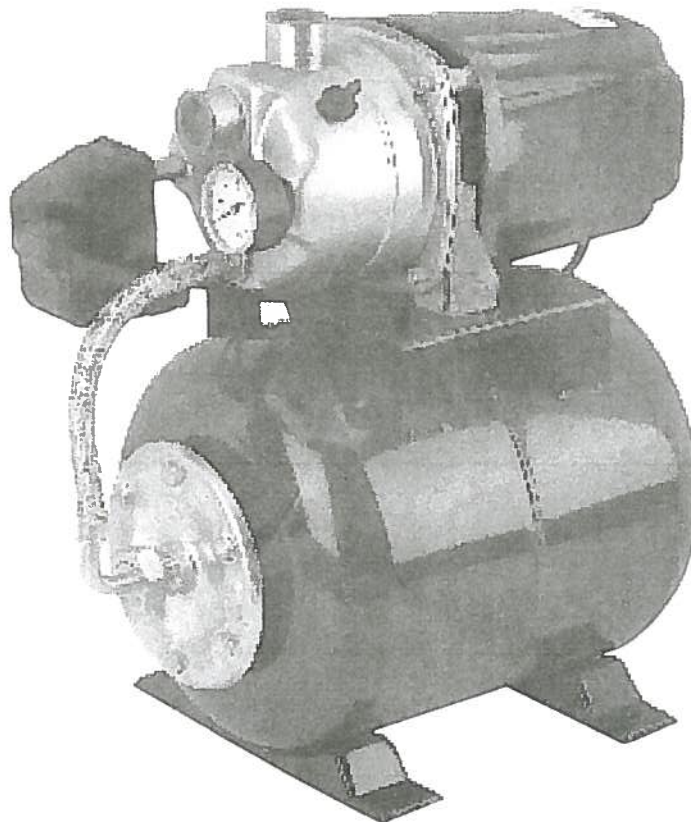
®

SHALLOW WELL PUMP

1 HP - Stainless Steel

Model 47906

ASSEMBLY and OPERATING INSTRUCTIONS



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Specifications

Motor	120 Volt, 60 Hz, 5 Amps (start-up) Single Phase, 3400 RPM
Discharge Size	1" Diameter
Maximum Flow	898 GPH
Maximum Suction Depth	26 Feet
Maximum Lift	164 Feet
Overall Dimensions	19" H x 10-5/8" W x 17-1/2" Long
Pressure Tank Capacity	5 Gallons
Maximum Pressure	72 PSI
Tank Hose Length	10 Inch
Weight	29-3/4 Lbs.

Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not expose this pump to rain or direct immersion. Don't expose to rain. Keep work area well lighted. Do not use electrically powered tools in the presence of flammable gases or liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle Pump.
4. **Use the right pump for the job.** Do not attempt to force a small Pump to do the work of a larger industrial Pump. There are certain applications for which this Pump was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this Pump and do not use this Pump for a purpose for which it was not intended.
5. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically nonconductive clothes and nonskid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
6. **Use eye and ear protection.** Always wear ANSI approved impact safety goggles and ear protection.
7. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
8. **Maintain Pump with care.** Keep Pump clean for better and safer performance. Inspect tool cords periodically; If damaged, have them repaired by a qualified technician.



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IRRIGATION PUMP



Pick up here ↓

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