

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A27-07306
Date Received: 5-10-89
Receipt No: M003556
Received By: Rao

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: LAVERELLE STECKLEIN 208-785-1594
Address: 757 W. RIVERTON RD.
BLACKFOOT, ID 83221

2. Date of Priority: MAR 24, 1982

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
03S	35E	12	NW	SW			BINGHAM

5. Description of diverting works:
WELL, 16" CASING, 150', 100 HP PUMP, PIVOTS

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	03/15	11/15	4.400		

7. Total Quantity Appropriated is:
4.400 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 660.0 Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
03S	35E	12	SE	NW		IRR	10.0
			NE	SW		IRR	40.0
			NW	SW		IRR	10.0
			SW	SW		IRR	40.0

A27-07306

Page 1

Date: 05/10/89

MICROFILMED
NOV 12 1992

A2707306



10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
03S	35E	12	SE	SW		IRR	40.0
						Section Acres	140.0
		13	NE	NW		IRR	40.0
			NW	NW		IRR	40.0
						Section Acres	80.0
						Total Acres	220.0

11. Place of use in counties: BINGHAM

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:

4.5 SHARES /BLACKFOOT IRRIGATION WATER

14. Remarks:

15. Basis of Claim: PERMIT

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do do not ☒ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: 1

For Individuals:

I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant(s): Louella Steubler Date: May 10 1989
_____ Date: _____

State of Idaho)
County of Benaham) SS.

Subscribed and sworn (or affirmed) before me this 10th day
of May 19 89

Anna Baunhoff
Notary Public

Seal

Residing at Anna Baunhoff, Notary Public
Residing at Boise, Idaho
My Commission Expires December 7, 1994



MICROFILMED

NOV 12 1992

Log for claim 27-07306

Spatial Dynamics LTD

12/29/00

TR	SEC	QQ	Acres Claimed	Acres Found	COMMENT
03s35e	12	SESW	10	15	
03s35e	12	NESW	40	40	
03s35e	12	NWSW	10	12	
03s35e	12	SWSW	40	40	
03s35e	12	SESW	40	39	
03s35e	13	NENW	40	24	
03s35e	13	NWNW	40	33	
Totals:			220	203	

 SPATIAL
DYNAMICS

AJ5809NP
No. A27-07306

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM PROFILE REPORT

DATE: 09/29/00
PAGE: 130

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	LAVERELLE STECKLEIN 757 W RIVERTON RD BLACKFOOT ID 83221 (208) 785-1594	03/24/1982	IRRIGATION	03-15 11-15	4.400 CFS	
TOTAL DIVERSION:					4.400 CFS	
CONSUMPTIVE USE:						660.00 AFA

Water Source: GROUNDWATER

Tributary to:

Stage: PERMIT

Point(s) of Diversion: T03S R35E S12

NWSW

BINGHAM County

Place of use Legal Description for: IRRIGATION

				NE				NW				SW				SE					
T	R	S	:	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	:	SUM
03S	35E	12	:									10	:	40	10	40	40	:			140.0
03S	35E	13	:					40	40	:											80.0
																			TOTAL ACRES		220.0

POU County: BINGHAM

Other Rights: 4.5 SHARES /BLACKFOOT IRRIGATION WATER

Other Water Rights Listing Overlapping Place(s) of Use:

A27-00022D A27-00035D A27-00038 A27-00039 A27-00040 A27-00041 A27-04155 A27-10878

Dates: Exam Made Date: Verified Date: Objection Filed Date:

Misc: Water District Number: Field Inspection Flag:
Presumption Flag:

Audit: 05/10/89 MOBILE2 01/17/95 JTHOMPSO 03/29/95 POST-STD

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. [REDACTED]

Priority: March 24, 1982

Maximum Diversion Rate: 3.70 CFS
Maximum Diversion Volume:¹ 766.5 AF

This is to certify, that LA VERELLE STECKLEIN
757 W. RIVERTON RD.
BLACKFOOT, ID 83221

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated March 24, 1982; and has submitted Proof of Beneficial Use on May 18, 1985. An examination indicates that the works have a diversion capacity of 3.700 cfs of water from a GROUNDWATER source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 11/01	3.70 CFS	766.5 AF

LOCATION OF POINT(S) OF DIVERSION:

NWSW , Sec. 12, Township 03S, Range 35E
BINGHAM County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
03S	35E	12	SWNE 0.2	SWNW 0.4	SENE 10.1		
			NESW 40	NWSW 11	SWSW 39.2		
			SESW 37	NWSE 9.3	SWSE 0.6		147.8
		13	NENW 27.9	NWNW 39.1	SWNW 3.5		
			SENE 0.7				71.2

Total number of acres irrigated: 219

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.

MICROFILMED

JAN 6 5 1991

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 27-07306

CONDITIONS/REMARKS:

5. This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 3.5 afa per acre for the lands above.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. Witness the seal and signature of the Director, affixed at Boise, this 7TH day of December, 1990.

Acting for

R. Keith Higginson, Director

MICROFILMED

JAN 03 1991

State of Idaho
Department of Water Resources

APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 27-07306

APPROVED

Date of Priority: March 24, 1982

Maximum Diversion Rate:

3.70 CFS

Maximum Diversion Volume:¹

766.5 AF

Comes now

LA VERELLE STECKLEIN

757 W. RIVERTON RD.

BLACKFOOT, ID 83221

and represents to the Director of the

Idaho Department of Water Resources:

That he is the owner and holder of Permit to appropriate the Public Waters of the State of Idaho No. 27-07306, and requests that the permit be changed as follows:

Source: GROUNDWATER

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 11/01	3.70 CFS	766.5 AF

LOCATION OF POINT(S) OF DIVERSION:

NWSW, Sec. 12, Township 03S, Range 35E
BINGHAM County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
03S	35E	12	SWNE 0.2	SWNW 0.4	SENE 10.1		
			NESW 40	NWSW 11	SWSW 39.2		
			SESW 37	NWSE 9.3	SWSE 0.6		147.8
		13	NENW 27.9	NWNW 39.1	SWNW 3.5		
			SENE 0.7				71.2

Total number of acres irrigated: 219

Permit holder asserts that no one will be injured by such change and that such change will be made at permit holder's own risk.

Signed at 9:00 AM, this 20 day of November, 1990.

MICROFILMED

JAN 13 1991

La Verelle Stecklein
(Signature)

State of Idaho
Department of Water Resources

APPLICATION FOR AMENDMENT

(For Licensing Purposes)

WATER RIGHT NO. 27-07306

FOR DEPARTMENT USE ONLY

Preliminary check by SC Fee ✓ \$20.00 EO 15479 Received by Jo Date 11-26-90

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, R. Keith Higginson, of the Department of Water Resources hereby approve the above Application for Amendment for Permit No. 27-07306 with the following;

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 3.5 afa per acre for the lands above.

Witness my hand this 7TH day of DECEMBER, 1990.

Acting for

R. Keith Higginson
R. Keith Higginson, Director

MICROFILMED

JAN 03 1991

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT **APPROVED**

To appropriate the public waters of the State of Idaho

1. Name of applicant LaVerelle Stecklein Phone 785-1594

Post office address Rt#3, Box 157 Blackfoot, Id. 83221

2. Source of water supply Groundwater which is a tributary of _____

3. Location of point of diversion is NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 12 Township 3S

Range 35E B.M. Bingham County, additional points of diversion if any: _____

4. Water will be used for the following purposes:

Amount 4.40cfs for Irrigation purposes from 3/15 to 11/15 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

a. 4.40cfs cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Well with line to two pivots

b. Height of storage dam _____ feet, active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet, materials used in storage dam: _____

Period of year when water will be diverted to storage _____ to _____ inclusive.
(Month/Day) (Month/Day)

c. Proposed well diameter is 16 inches; proposed depth of well is 160 feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial use is 3 years (minimum 1 year - maximum 5 years).

8. Description of proposed uses:

a. If water is not for irrigation:

(1) Give the place of use of water: _____ $\frac{1}{4}$ of _____ $\frac{1}{4}$ of Section _____ Township _____

Range _____ B.M.

(2) Amount of power to be generated: _____ horsepower under _____ feet of head.

(3) List number of each kind of livestock to be watered _____

(4) Name of municipality to be served _____, or number of families to be supplied with domestic water _____

(5) If water is to be used for other purposes describe: _____

RECEIVED

b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
3S	35E	12								10	40	10	40	40					140
		13					40	40											80

Total number of acres to be irrigated 220

c. Describe any other water rights used for the same purposes as described above. 4.5 shares of
Blackfoot Irrigation Water

9. a. Who owns the property at the point of diversion Applicant

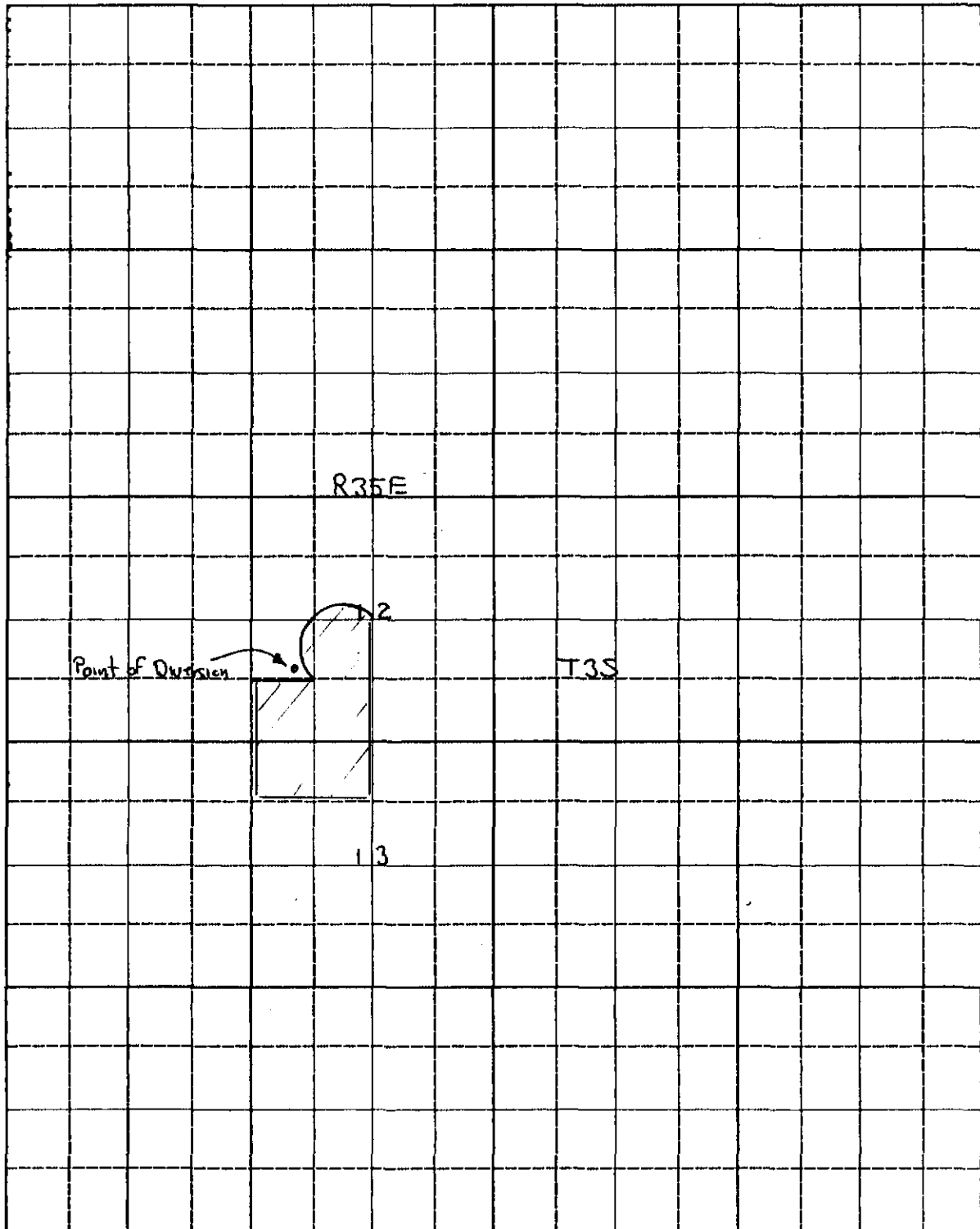
b. Who owns the land to be irrigated or place of use Applicant

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing _____

10. Remarks _____

RECEIVED

11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

La Daulle Stedman
(Applicant)

Proposed Priority 3/24/1982

Received by CU Date 3-24-82 Time 11:30A

Preliminary check by KCW Fee \$ 125.00

Received by CU Date 3-24-82 # 20179

Publication prepared by for Date 3-31-82

Published in Blackfoot News

Publication dates 4-8 4-15-82

Publication approved BP Date 4-21-82

Protests filed by: None

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by _____

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 27-7306, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before June 1, 19 85.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. Other: Permit holder shall commence the excavation or construction of diversion works within one year of the date this permit is issued and shall proceed diligently until the project is complete.

An access port or other device as specified by the Department shall be installed by the permit holder to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.

Witness my hand this 6th day of May, 1982.

J. Glen Sayton
Chief, Operations Bureau

MICROFILMED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
JUN 13 1990

A. GENERAL INFORMATION

1. Owner: Laverette Steckin
Current Address: 757 W. Riverfront Rd. Blackfoot ID 83225
2. Accompanied by: Same
Address: _____
Relationship to Permit Holder: Owner
3. Source: Groundwater tributary to _____

Permit No. 27-7306
Department of Water Resources

Phone No. 785-1511

EXAM. DATE: 6-22-89

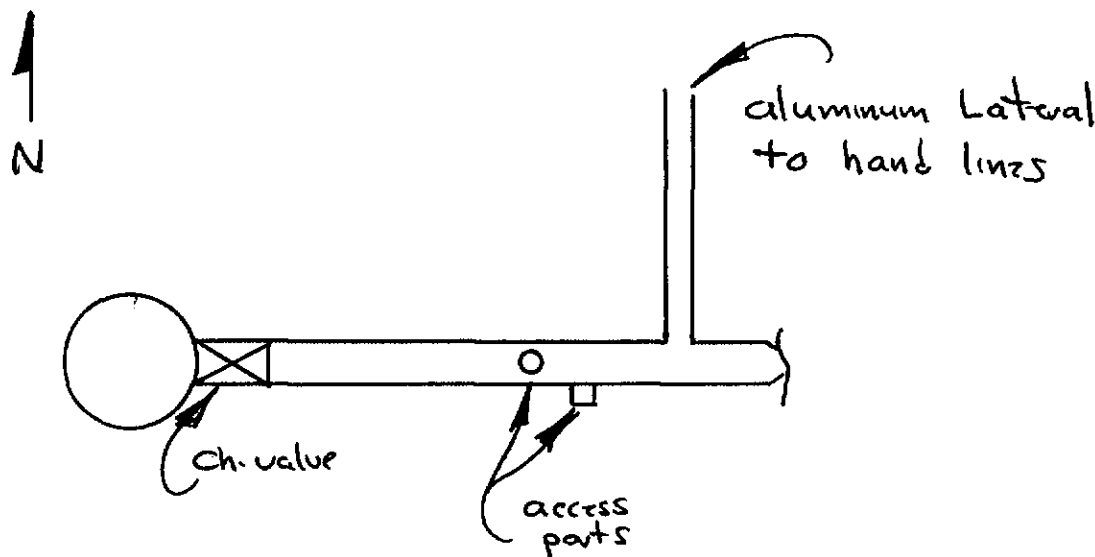
Phone No. _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: 01-0047E 01-0048 01-0298
_____ ☐ 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" = _____

2. ☒ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required).

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

☒ Aerial Photo Attached
(required for irrigation of 10 acres or more).

MICROFILMED

JAN 03 1991

System Description (continued)

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

Well + Pump to 1 - 7 tower center pivot with end gun + 1 - 9 tower center pivot with corner catcher + end gun.

Handlines get small corners in North circle

System has been changed and is now low pressure.

About 50 series of numbers with 700000

Static water level = 43 ft (from well log)

☐ 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
	G-E	100	FTJ 617 359	—	—

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

- 5. Point(s) of Diversion:**

[illegible]

- 6. Place(s) of Use:**

Indicate Method of Determination

[illegible]

MICROFILMED

JAN 03 1951

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Annubar		Dieterich	7517-316-SS	091409	7.98"	
Hall meter	Pitot	Cox		120307	6"	
manometer		IDWR			57"	

2. Measurements:

Pressure = 49 psi

HA = $\frac{\text{Manometer}}{\text{Annubar}} = 31.8" - 2.9" = 48.9" \Rightarrow \frac{1}{H} = 35" 34.9$

T.D. = 7.5/8"

Annubar / Manometer = 47" - 4.3" = 42.7"

A-Factor = 3.37

" = 47.2 - 4" = 43.2" $G_{annubar} = 3.3 \%$

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

See Calculation Sheet $G = 3.7 \%$

2. Alternate Method for Checking Purposes:

See Calculation Sheet $G = 4.52 \%$

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:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (219)(3.0) = 657 \text{ a/c}$

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (3.7)(25)(1.9835) = 1798 \text{ a/c}$

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 657 \text{ a/c}$

2. Volume Calculations for Other Uses:

MICROFILMED

JAN 03 1991

H. REMARKS AND OVERLAP REVIEW ANALYSIS

7-birds were shutt-off so we took a measurement on one of the birds on the end of the 7-tower pivot and it produced 29411 in 12.63 seconds which gives 9.5 gpm per bird.

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	3.7 cfs	657 afa
Totals:			3.7 cfs	657 afa

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 |

J. AUTHENTICATION

Field Examiner's Name Kelly Schild
Signature Kelly Schild
Certification Date 0
Field Report Preparation Date 8-14-89

CONSULTANT SEAL

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

10-16-90
SC

MICROFILMED

JAN 03 1991

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
LICENSING REPORT

27-7306
PERMIT NO.

MANOMETER READING TO HALLS V_h

	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0	0.0	0.8	1.3	1.8	2.2	2.5	2.9	3.3	3.7	4.0
1	4.3	4.5	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
2	6.3	6.5	6.7	6.9	7.0	7.2	7.3	7.5	7.6	7.7
3	7.9	8.0	8.2	8.3	8.5	8.6	8.7	8.8	9.0	9.1
4	9.3	9.4	9.5	9.6	9.7	9.8	10.0	10.1	10.2	10.3
5	10.4	10.5	10.6	10.7	10.9	11.0	11.1	11.2	11.3	11.4
6	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4
7	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4
8	13.5	13.5	13.6	13.7	13.8	13.9	14.0	14.0	14.1	14.2
9	14.3	14.4	14.5	14.5	14.6	14.7	14.8	14.9	15.0	15.0
10	15.1	15.2	15.3	15.4	15.5	15.5	15.6	15.7	15.8	15.9
11	15.9	16.0	16.1	16.2	16.3	16.3	16.4	16.5	16.5	16.6
12	16.7	16.7	16.8	16.9	17.0	17.0	17.1	17.2	17.3	17.3
13	17.4	17.5	17.5	17.6	17.7	17.8	17.8	17.9	18.0	18.1
14	18.1	18.2	18.3	18.3	18.4	18.5	18.5	18.6	18.7	18.7
15	18.8	18.9	18.0	19.0	19.1	19.1	19.2	19.3	19.3	19.4
16	19.5	19.5	19.6	19.6	19.7	19.7	19.8	19.9	19.9	20.0
17	20.1	20.1	20.2	20.2	20.3	20.4	20.4	20.5	20.5	20.6
18	20.7	20.7	20.8	20.9	20.9	21.0	21.0	21.1	21.2	21.2
19	21.3	21.3	21.4	21.4	21.5	21.6	21.6	21.7	21.7	21.8
20	21.9	21.9	22.0	22.0	22.1	22.2	22.2	22.3	22.3	22.4
21	22.4	22.5	22.5	22.6	22.6	22.7	22.7	22.8	22.9	22.9
22	23.0	23.0	23.1	23.1	23.2	23.2	23.3	23.4	23.4	23.5
23	23.5	23.6	23.6	23.7	23.7	23.8	23.8	23.9	23.9	24.0
24	24.0	24.1	24.2	24.2	24.3	24.3	24.4	24.4	24.5	24.5
25	24.6	24.6	24.7	24.7	24.8	24.8	24.9	24.9	25.0	25.0
26	25.1	25.1	25.2	25.2	25.3	25.3	25.4	25.4	25.5	25.5
27	25.6	25.6	25.7	25.7	25.8	25.8	25.9	25.9	26.0	26.0
28	26.1	26.1	26.2	26.2	26.3	26.3	26.4	26.4	26.5	26.5
29	26.6	26.6	26.7	26.7	26.8	26.8	26.9	26.9	26.9	27.0
30	27.0	27.1	27.1	27.2	27.2	27.3	27.3	27.4	27.4	27.5
31	27.5	27.5	27.6	27.6	27.7	27.7	27.8	27.8	27.9	27.9
32	28.0	28.0	28.0	28.1	28.1	28.2	28.2	28.3	28.3	28.4
33	28.4	28.5	28.5	28.5	28.6	28.6	28.7	28.7	28.8	28.8
34	28.9	28.9	29.0	29.0	29.0	29.1	29.1	29.1	29.2	29.2
35	29.3	29.3	29.3	29.4	29.4	29.5	29.5	29.5	29.6	29.6
36	29.7	29.7	29.8	29.8	29.9	29.9	30.0	30.0	30.0	30.1
37	30.1	30.2	30.2	30.3	30.3	30.4	30.4	30.5	30.5	30.5
38	30.6	30.6	30.7	30.7	30.8	30.8	30.8	30.9	30.9	31.0
39	31.0	31.0	31.1	31.1	31.2	31.2	31.2	31.3	31.3	31.4
40	31.4	31.5	31.5	31.5	31.6	31.6	31.7	31.7	31.7	31.8
41	31.8	31.9	31.9	31.9	32.0	32.0	32.1	32.1	32.1	32.2
42	32.2	32.3	32.3	32.3	32.4	32.4	32.4	32.5	32.5	32.5
43	32.6	32.6	32.7	32.7	32.7	32.8	32.8	32.9	32.9	33.0
44	33.0	33.0	33.1	33.1	33.2	33.2	33.2	33.3	33.3	33.4
45	33.4	33.5	33.5	33.5	33.6	33.6	33.7	33.7	33.7	33.8
46	33.8	33.9	33.9	33.9	34.0	34.0	34.0	34.1	34.1	34.1
47	34.2	34.2	34.2	34.3	34.3	34.4	34.4	34.4	34.5	34.5
48	34.6	34.6	34.6	34.7	34.7	34.8	34.8	34.8	34.9	34.9

$$Q_{cfs} = \frac{II (id)^2}{4} (V_h) / 448.8$$

$$id = 7.625 \quad V_h = 34.9$$

$$Q = \frac{0.78539 (7.625)^2 (34.9)}{448.8}$$

$$Q = 3.55 \text{ cfs}$$

7 birds were off - we took a measurement
on one of the birds on the end of the 7-tower
first - and it produced 2 gpm / 12.6 seconds
Sound = 9.5 gpm

$$(7 \text{ birds} \times 9.5 \text{ gpm} / \text{bird}) = 66.5 \text{ gpm} = 1.48 \text{ cfs}$$

$$\text{Total } Q = 3.55 + 1.48 = 3.7 \text{ cfs}$$

$$Q_{theor} = \frac{hp (8.814) \times \text{eff}}{1.44 + (2.308 \times \text{psi})}$$

$$Q_{theor} = \frac{100 (8.814) \times .8}{43 + (2.308 \times 49)} = 4.52 \text{ cfs theoretical}$$

MICROFILMED

JAN 13 1991

SIGNATURE

Page 1 of Page 1

27-7306

2
69.5

66.1

12.5

3
140.0

0.2

.38

10.1

Point of Diversion

Place of Use

11.0

40

9.3

2
18.3

.6 ac

39.2

37.0

3
94

T
3
S
R35E

39.1

27.9

5
140.0

L3

3.5

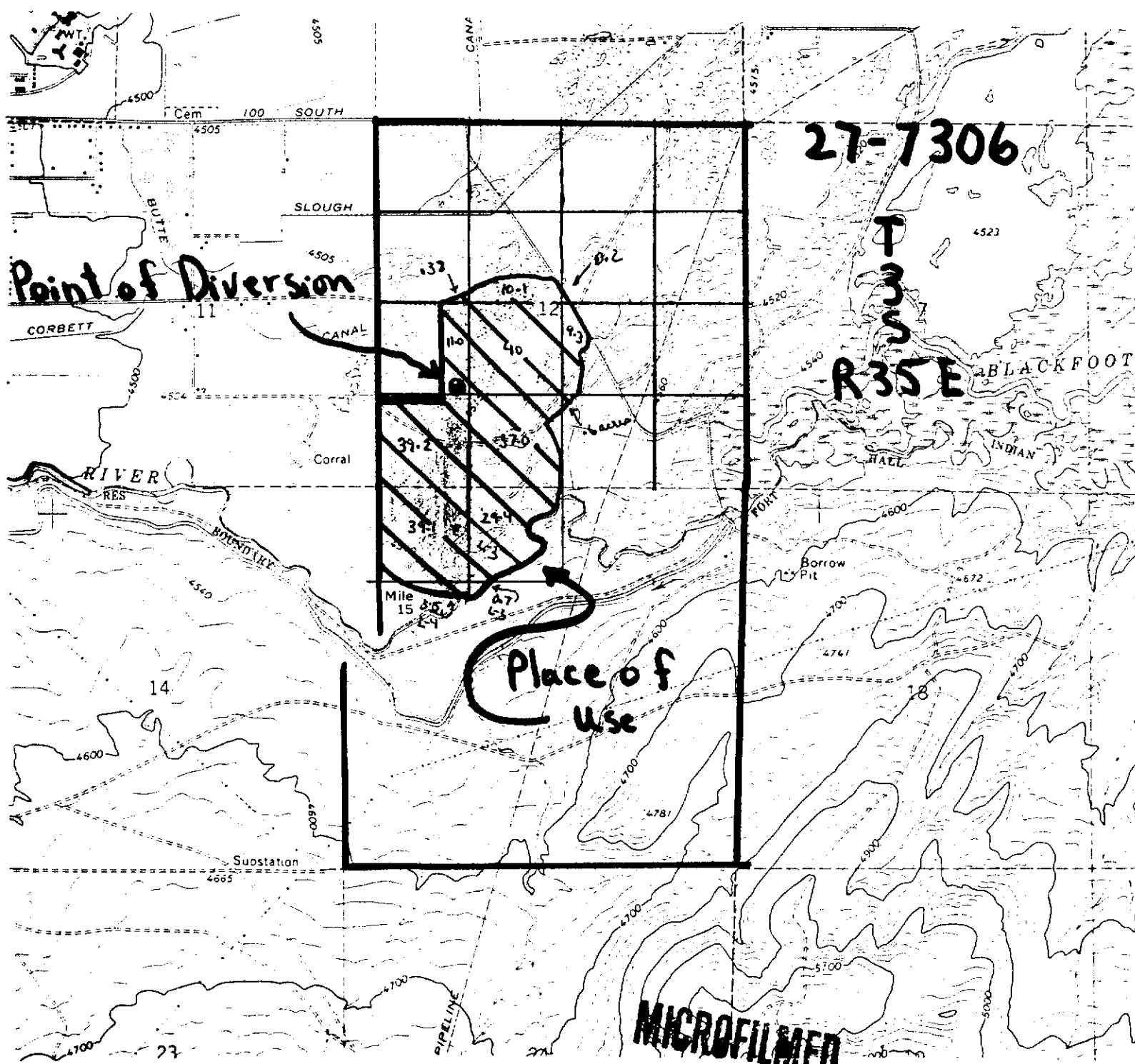
.7 ac

6
13.3

FORT RAINIER CANAL

MICROFILMED

JAN 03 1991



27-7306

T
3
S
R35E

Point of Diversion

Place of Use

MICROFILMED

JAN 03 1991