

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

A. GENERAL INFORMATIONPermit No: 65-23338

Exam Date: 02-11-15

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: Wright
 Owner of Record Correct? Y X N
 Address of Record Correct? Y X N
 If No: Address

85 Old Crouch Road, Garden Valley 83622 per statement of completion and taxlot data.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C099752

4. SOURCE**TRIBUTARY**

Groundwater

Method of Determination: Well Log

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
65-23012	Anderson Creek	Irrigation	Decreed

Comments: POU PIN: RP09N04E154853 65-10499 – Coy, RP09N04E156500A 65-23012 – irrigation for ground library was built on. 65-10743 – Garden Valley Rec. Dist. PIN RP09N04E154852 N. of POU 65-1302 – Credit Union, for Bar/Café/Mobile Home Park 65-23011 – IFPL, South of POU 65-23320, 65-23322 & 65-5541 – Youren, across road E. of POU

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

Water Right No.	Source	Purpose of Use	Basis

Comments: Payette River POD: 65-10743

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Groundwater			NE	SW	15	09N	04E	B.M.	Boise
								B.M.	

Method of Determination: well log

Change in POD? Y N Amendment Required? Y N

License recommend for N/A afa. See spreadsheet from measurement reports provided.
- 2500 gal/day condition or equivalent on permit.

G. PURPOSE OF USE

Irrigation _____N _____ # Stock _____ Domestic # of Homes _____1_____

Other:

Change in Purpose of Use? _____Y _____X_____N

Method of Determination:

If Yes: From Use _____To Use _____Amount _____CFS _____AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Water District: 65
Wild and Scenic Watersheds:None

Conditions:
2,500 gal per day limit
Limited to 0.5 AC irrigation
This right does not grant any right-of-way or easement across the land of another
Public Library

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>
Domestic	01/01 to 12/31	0.04 CFS	N/A AF
<u>Totals:</u>		0.04 CFS	N/A AF In condition 2500/day

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 Darrell Finner Date 02/24/15

Reviewer Dana A. Allen Date 2-24-15

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Water Right	65-10888	N	STEIN, BONNIE J; STEIN, ROBERT A	GROUND WATER	POU	X				0
Water Right	65-10910A	N	ELLER, PAMELA M	GROUND WATER	POD				X	0
Water Right	65-10910A	N	ELLER, PAMELA M	GROUND WATER	POU				X	0
Water Right	65-10910B	N	FORD, WILLIAM R	GROUND WATER	POD				X	0
Water Right	65-10910B	N	FORD, WILLIAM R	GROUND WATER	POU				X	0
Water Right	65-10920	N	ROARK, T F	GROUND WATER	POD			X		0
Water Right	65-10920	N	ROARK, T F	GROUND WATER	POU			X		0
Water Right	65-12361	N	VINCENT, ORVILLE R	GROUND WATER	POD			X		0
Water Right	65-12361	N	VINCENT, ORVILLE R	GROUND WATER	POU			X		0
Water Right	65-12380	N	SARLES, EILEEN W; SARLES, ROBERT W	GROUND WATER	POD			X		0
Water Right	65-12380	N	SARLES, EILEEN W; SARLES, ROBERT W	GROUND WATER	POU			X		0
Water Right	65-13029	N	LES BOIS FEDERAL CREDIT UNION	GROUND WATER	POD			X		0
Water Right	65-13029	N	LES BOIS FEDERAL CREDIT UNION	GROUND WATER	POU			0.5	0.5	1
Water Right	65-13030	N	MOUNTAIN VIEW WATER & ROAD ASSN INC	GROUND WATER	POD		X			0
Water Right	65-13030	N	MOUNTAIN VIEW WATER & ROAD ASSN INC	GROUND WATER	POU		X		X	0
Water Right	65-13044	N	ALLISON, RICHARD	SPRING	POD			X		0
Water Right	65-13044	N	ALLISON, RICHARD	SPRING	POU			X		0
Water Right	65-13319	N	RODES, JIM; RODES, SHIRLEY	GROUND WATER	POD	X				0
Water Right	65-13319	N	RODES, JIM; RODES, SHIRLEY	GROUND WATER	POU	2.0				2
Water Right	65-13320	N	RODES, JIM; RODES, SHIRLEY	SPRING, UNNAMED STREAM	POD	X				0
Water Right	65-13320	N	RODES, JIM; RODES, SHIRLEY	SPRING, UNNAMED STREAM	POU	2.0				2
Water Right	65-13542	N	JACKSON, DINAH	PAYETTE RIVER	POD				X	0
Water Right	65-13542	N	JACKSON, DINAH	PAYETTE RIVER	POU				1.0	1
Water Right	65-13673	N	WEILMUNSTER, DONALD K; WEILMUNSTER, LINDA	PAYETTE RIVER	POD				X	0
Water Right	65-13673	N	WEILMUNSTER, DONALD K; WEILMUNSTER, LINDA	PAYETTE RIVER	POU				1.0	1
Water Right	65-18086	N	BAIR, DONALD; BAIR, EDNA	GROUND WATER	POD	X				0
Water Right	65-18086	N	BAIR, DONALD; BAIR, EDNA	GROUND WATER	POU	X				0
Water Right	65-18102	N	LES BOIS FEDERAL CREDIT UNION	GROUND WATER	POD			X		0
Water Right	65-18102	N	LES BOIS FEDERAL CREDIT UNION	GROUND WATER	POU			X		0
Water Right	65-18107	N	DAVIS, CLARENCE; DAVIS, LUELLA	GROUND WATER	POD	X				0

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MEMORANDUM

TO: Water Right File 65-23338

FROM: Daniel Nelson – Staff Hydrologist

DATE: February 18, 2015

SUBJECT: Telephone Conversation with Richard Wilson

On this date, I spoke with the Garden Valley District Library's representative, Richard Wilson. There was a discrepancy on the gallons submitted by Mr. Wilson for the flow measurements. The flow measurements were supposedly in 1,000 gallon increments, but after speaking with Mr. Wilson, they are in actual gallons. He received the form SPF Engineers and didn't look at the multipliers.

I asked Mr. Wilson if he knew the size of the pump, and he told me that the pump was a 1 Hp pump that was rated at 19 gpm. The pump generally operated at 16 gpm. This would be 0.036 cfs to 0.04 cfs. This sounds reasonable and matches the permit and the theoretical sheet I prepared.

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 65-23338
 Reviewer: Dan Nelson
 Date of Review: 2/18/2015

P/D No.:	Well #1	Well #2	Well #1 Full Drawdown
PUMP HORSEPOWER	1	1	1
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	25	44	63
DISCHARGE PRESSURE	50	50	50
RATE OF FLOW (cfs)	0.04	0.04	0.03
	20	17	15
			17.50

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 owner told me that the pump was a 1 Hp pump. He recorded the pressures as running between 40 and 60 psi. I checked the well log, and a pump test was done over a 10 hr period with a draw down of 38 feet beyond the 25 foot static level. The owner stated that they only run the pump system periodically, so the 10 hour drawdown seems excessive. I ran a test from static to maximum drawdown and calculated 0.04 cfs, which is what the owner stated the pump diverted.

Year	Date Measurement Taken	Days Since Last Reading	Totalizer Reading (Gallons)	Gallons this Reading	Average Daily Gallons	Average Gpm Per Day
2011	21-Feb		3560			
	1-Mar	10	3710	150	15.0	0.01
	1-Apr	31	4350	640	20.6	0.01
	1-May	30	4905	555	18.5	0.01
	1-Jun	31	5520	615	19.8	0.01
	1-Jul	30	6360	840	28.0	0.02
	1-Aug	31	7080	720	23.2	0.02
	1-Sep	31	7710	630	20.3	0.01
	1-Oct	30	10700	2990	99.7	0.07
	1-Nov	31	11640	940	30.3	0.02
	1-Dec	30	12320	680	22.7	0.02
	1-Jan	31	13030	710	22.9	0.02
Total Gallons				9470		

0.03 af

Year	Date Measurement Taken	Days Since Last Reading	Totalizer Reading (Gallons)	Gallons this Reading	Average Daily Gallons	Average Gpm Per Day
2012	1-Jan		13030			
	31-Jan	31	13770	740	23.9	0.02
	1-Feb	29	14530	760	26.2	0.02
	31-Mar	31	15375	845	27.3	0.02
	30-Apr	30	16210	835	27.8	0.02
	31-May	31	20920	4710	151.9	0.11
	30-Jun	30	28540	7620	254.0	0.18
	31-Jul	31	36390	7850	253.2	0.18
	31-Aug	31	44636	8246	266.0	0.18
	30-Sep	30	52050	7414	247.1	0.17
	31-Oct	31	53600	1550	50.0	0.03
	30-Nov	30	54700	1100	36.7	0.03
	31-Dec	31	55560	1960	63.2	0.04
Total Gallons				43630		

0.13 af

Year	Date Measurement Taken	Days Since Last Reading	Totalizer Reading (Gallons)	Gallons this Reading	Average Daily Gallons	Average Gpm Per Day
2013	12/31/2012		55560			
	31-Jan	31	56650	1090	35.2	0.02
	28-Feb	28	57480	830	29.6	0.02
	31-Mar	31	59219	1739	56.1	0.04
	30-Apr	30	60460	1241	41.4	0.03
	31-May	31	67812	7352	237.2	0.16
	30-Jun	30	81065	13253	441.8	0.31
	31-Jul	31	105469	24404	787.2	0.55
	30-Aug	30	130380	24911	830.4	0.58
	30-Sep	30	158570	28190	939.7	0.65
	31-Oct	31	162880	4310	139.0	0.10
	30-Nov	30	163640	760	25.3	0.02
	31-Dec	31	164190	550	17.7	0.01
Total Gallons				108630		

0.33 af

Year	Date Measurement Taken	Days Since Last Reading	Totalizer Reading (Gallons)	Gallons this Reading	Average Daily Gallons	Average Gpm Per Day
2014	12/31/2012		164190			
	31-Jan	31	164375	185	6.0	0.00
	28-Feb	28	165390	1015	36.3	0.03
	31-Mar	31	166130	740	23.9	0.02
	30-Apr	30	167070	940	31.3	0.02
	31-May	31	180810	13740	443.2	0.31
	30-Jun	30	200760	19950	665.0	0.46
	31-Jul	31	217120	16360	527.7	0.37
	30-Aug	31	226320	9200	296.8	0.21
	30-Sep	30	236210	9890	329.7	0.23
	31-Oct	31	245465	9255	298.5	0.21
	30-Nov	30	256126	10661	355.4	0.25
Total Gallons				91936		

0.28 af
0.3 af

Adjusted due to 11 months recorded.

* Signature of Principal Driller and rig operator are required.