

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 21-13225
Exam Date: 10/15/2015

1. Current Owner:
ISLAND PARK WATER CO C/O DOROTHY MCCARTY IDAHO FALLS ID 83401 (208) 521 2369
2. Accompanied by: Dorothy McCarty
Relationship to Permit Holder: Same
3. SOURCE: GROUND WATER
- TRIBUTARY:

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 21-10458 and 21-10501 each serve a single unidentified home within the SWNW of Section 12.
2. Other water rights with the same point-of-diversion: None

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

GROUND WATER SW¼NW¼ Sec. 12, Twp 13N, Rge 42E, B.M. FREMONT County

Method of Determination: GPS and ArcMap

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	42E	12							X										

Method of Determination: Meeting with appropriator and ArcMap.

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

4. Well/System Information

The system consists of one well, locally known as the Springfield Well, serving twelve domestic hookups.

D. FLOW MEASUREMENTS

The well did not have enough exposed pipe on which to place a flow meter, so a theoretical calculation is included on an attached spreadsheet.

The pumping level used in the theoretical calculation was derived from the well driller's report.

It is of note that the well log for the well log for this well, the Springfield Well, could not be matched with 100% certainty. Island Park Water Company originally drilled the well, in addition to eight others serving the Shotgun Subdivisions. Of the nine total wells that Island Park Water Company drilled, five contained erroneous legal descriptions on the well logs. The correct location of seven of the other wells are discussed in the field reports for licenses 21-7443, 21-13222, 21-13223, and 21-13224.

The other well which is not easily matched with a well log is locally known as the Savage Well and is also located in the SWNW of Section 12. The well logs used for the Savage and Springfield Wells (as well as two additional well logs) describe a location within the SWNW of Section 12. One well was drilled in July of 1972, and the other in August of 1972. The well drilled in August of 1972 indicates that its location is in the NE ¼ of the QQ in which it was drilled. The Savage well is in the NESWNW of Section 12. The well log from August was therefore matched with the Savage well, leaving the well log from July to be matched with the Springfield well.

A pump test was run on one well (Chickasaw) of the nine wells drilled by Island Park Water Company to serve the Shotgun Subdivisions. It reported no drawdown after being pumped for ½ hour at 300 gpm. Therefore, no drawdown correction was applied as part of the theoretical calculation.

E. FLOW

 X Additional Computation Sheets Attached

CALCULATIONS

The system is capable of producing 0.13 cfs.

However, it will be limited to 0.05 cfs based on parent permit 21-7443.

Permit 21-7443: 0.4 cfs / 100 homes * 12 homes = 0.05 cfs

F. VOLUME CALCULATIONS

0.6 AFA/in-home use/hookup

0.6 AFA/domestic irrigation/hookup

0.6 AFA/in-home use/hookup + 0.6 AFA/domestic irrigation/hookup = 1.2 AFA/hookup * 12 hookups = 14.4 AFA/system

G. NARRATIVE/REMARKS/COMMENTS

The determination of 12 hookups was made by examining the lots' property owners and, using aerial photography, determining the number of structures on the lots. If contiguous lots were owned by the same entity and contained only one structure the size of a home/cabin, the property owner was assumed to have only one hookup.

Proof of Beneficial Use for this right was received on February 12, 1992, yet 2015 aerial photography was used in this analysis. Based on the dates the wells were drilled, dates on subdivision plats, and aerial photography from the 1990s, the beneficial use was developed in its entirety during the development period. Therefore, using 2015 aerial photography because of its higher quality has no effect on the issued license.

The original permit's 0.40 cfs is the Department's standard rate for domestic in-home use only for 100 homes. However, the homes were developed with the irrigation of lawn and trees. Nothing in the permit's conditions excluded the irrigation of ½ acre for domestic purposes.

Have conditions of permit approval been met? X Yes No

H. 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	0.05 CFS	14.4 AF
	<u>Totals:</u>	0.050 CFS	14.40 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 ☐ None

Permit 21-7443 was amended prior to licensing. The amendment also applied to licenses 21-13222, 21-13223, 21-13224, and 21-13225, which were split from permit 21-7443 at licensing.

I. AUTHENTICATION

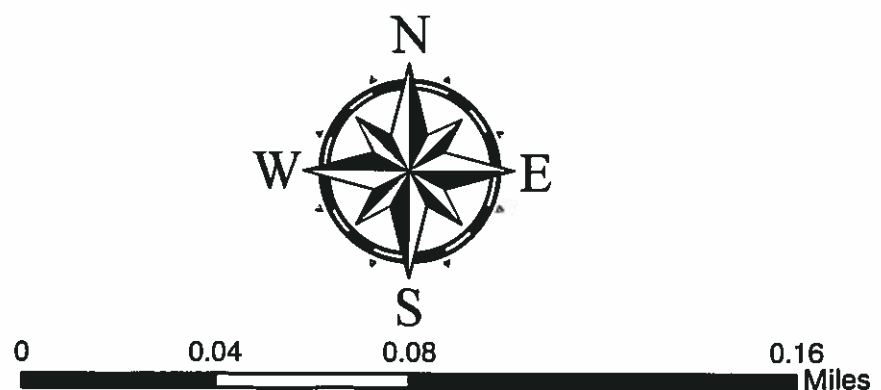
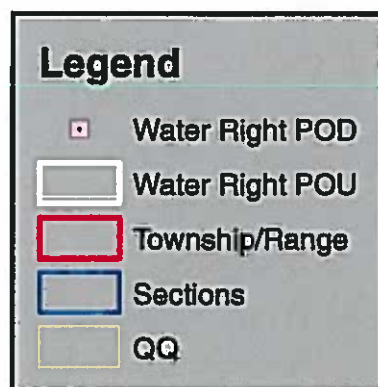
Field Examiner's Name Cooper Fritz Date 5/4/2017

Reviewer James Cefalo Date 5/8/17

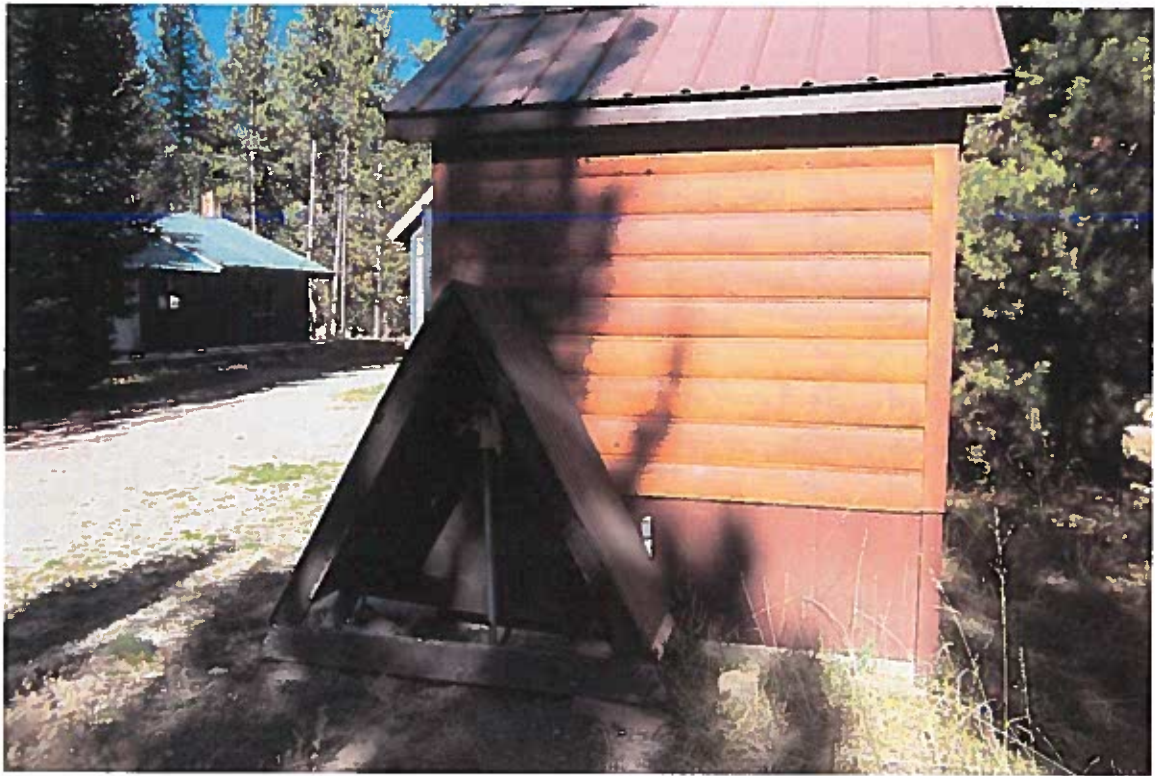
21-13225 Place of Use and Point of Diversion at Licensing



2015 Imagery







THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 21-13225

Examiner: Cooper

Date of Field Exam: 10/15/2015

Option 1

P/D No.:

PUMP HORSEPOWER

3

BOOSTER HORSEPOWER

0

PUMPING LEVEL

30

DISCHARGE PRESSURE

50

FRICTION

0

RATE OF FLOW (cfs)

0.13

(gpm)

57.0

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.

Examiners Notes:

Lift was taken from well log. Hp of 3 was verbally given. A standard psi for domestic use of 50 psi was used to estimate the pressure against the pump.

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

RECEIVED
JUN 28 1976

Springfield
Well

1. WELL OWNER

Name Island Park Water Co.

Address Shotgun Village
300 A Street Idaho Falls, Idaho

Owner's Permit No. _____

2. NATURE OF WORK

- ☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

- ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)
☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

- ☐ Cable ☒ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 85 feet
Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>.250</u> inches	<u>6</u> inches	<u>1</u> feet	<u>65'8"</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

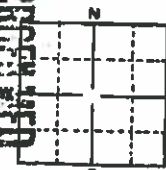
Gravel packed? ☐ Yes ☒ No Size of gravel _____
Placed from _____ feet to _____ feet

Surface seal depth 19' Material used in seal ☐ Cement grout
☒ Bentonite ☒ Pudding clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing
☒ Overbars to seal depth

6. LOCATION OF WELL

Which map location must agree with written location.



Subdivision Name Shotgun Village

Lot No. _____ Block No. _____

County Fremont

SW x NW Sec. 12 T. 13 N. R. 42 E/42

7. WATER LEVEL

Department of Water Resources
Eastern District Office

Static water level 30 feet below land surface

Flowing? ☐ Yes ☒ No G.P.M. flow _____

Temperature _____ ° F. Quality good

Artesian closed-in pressure _____ p.s.i.

Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

- ☐ Pumo ☐ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
6	0	10	Topsoil		
	10	42	Hard Brown Shale		
	42	55	Brown Clay		
	55	60	Pea Gravel		
	60	68	Soft Reddish Shale		
	68	70	Broken Reddish Shale	x	
	70	80	Hard Reddish Shale		
6	80	85	Broken Reddish Shale	x	

100432

10.

Work started July 6, 1972 finished July 7, 1972

11. DRILLER'S CERTIFICATION

Firm Name Andrew Well Drilling Contr. Firm No. 5

Address 1268 East 17th Street Date 8-20-76
Idaho Falls, Idaho 83401

Signed by (Firm Official) Howard R. Ruden

and

(Operator) G. H. H. H.

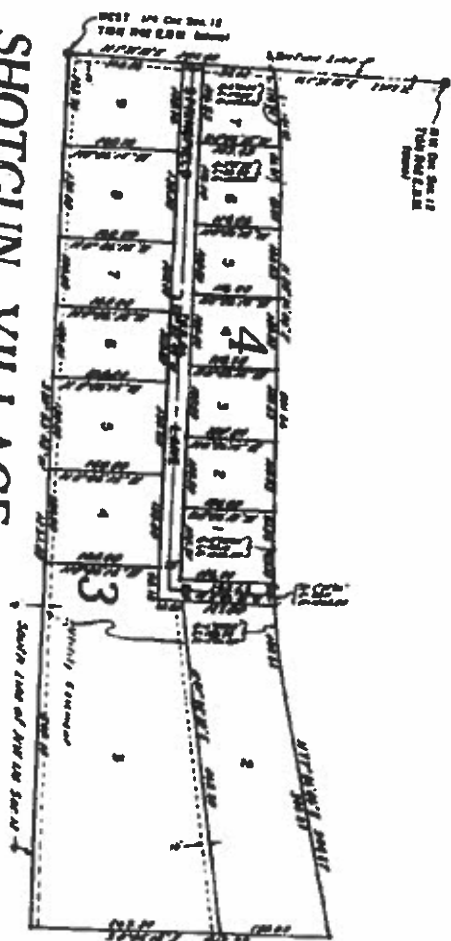
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USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

OWNER	LEGAL1	ACRES	Number of Hookups
BROWN WENDY BROWN MELVIN	SHOTGUN VILLAGE EST DIV #1 LOT 3 BLK 4 SEC 12 TWP 13 RGE 42	0.30000000	1
CALDWELL DOUGLAS L CALDWELL TERRI J	SHOTGUN VILLAGE EST DIV #1 LOT 4 BLK 4 SEC 12 TWP 13 RGE 42	0.30000000	2
DAVIES KEITH R DAVIES LANA	SHOTGUN VILLAGE EST DIV #1 LOT 5 BLK 4 SEC 12 TWP 13 RGE 42 (P2 2006)	0.30000000	3
FLACK DEE ANN D	SHOTGUN VILLAGE EST DIV #1 LOT 1 BLK 4 SEC 12 TWP 13 RGE 42	0.30000000	4
KIDMAN PATRICIA KAY DROLLINGER DEBRA ANN	SHOTGUN VILLAGE EST DIV #1 LOT 8 BLK 3 SEC 12 TWP 13 RGE 42	0.50000000	5
LINSCHIED DENVER LINSCHIED MARJORIE	SHOTGUN VILLAGE EST DIV #1 LOT 5 BLK 3 SEC 12 TWP 13 RGE 42 1996 KIT 27X40	0.50000000	6
LOVELAND BETTY C	SHOTGUN VILLAGE EST DIV #1 LOT 7 BLK 4 SEC 12 TWP 13 RGE 42	0.30000000	7
MCKAY BRYAN E MCKAY RODNEY J	SHOTGUN VILLAGE EST DIV #1 LOTS 6-7 BLK 3 SEC 12 TWP 13 RGE 42	0.40000000	8
MCKAY BRYAN E MCKAY RODNEY J	SHOTGUN VILLAGE EST DIV #1 LOTS 6-7 BLK 3 SEC 12 TWP 13 RGE 42	0.40000000	9
SONTAG GARY JAMES	SHOTGUN VILLAGE EST DIV #1 LOT 2 BLK 4 SEC 12 TWP 13 RGE 42	0.30000000	10
STEINMETZ CHRIS LEE	SHOTGUN VILLAGE EST DIV #1 LOT 6 BLK 4 SEC 12 TWP 13 RGE 42	0.30000000	11
THURMAN KAY S THURMAN ORA D	SHOTGUN VILLAGE EST DIV #1 LOT 4 BLK 3 SEC 12 TWP 13 RGE 42 MH	0.50000000	12
TURLEY BRIAN G TURLEY KATHLEEN B	SHOTGUN VILLAGE EST DIV #1 LOT 9 BLK 3 SEC 12 TWP 13 RGE 42 MH	0.50000000	

SEE SHEET 12 FOR THE EAST END

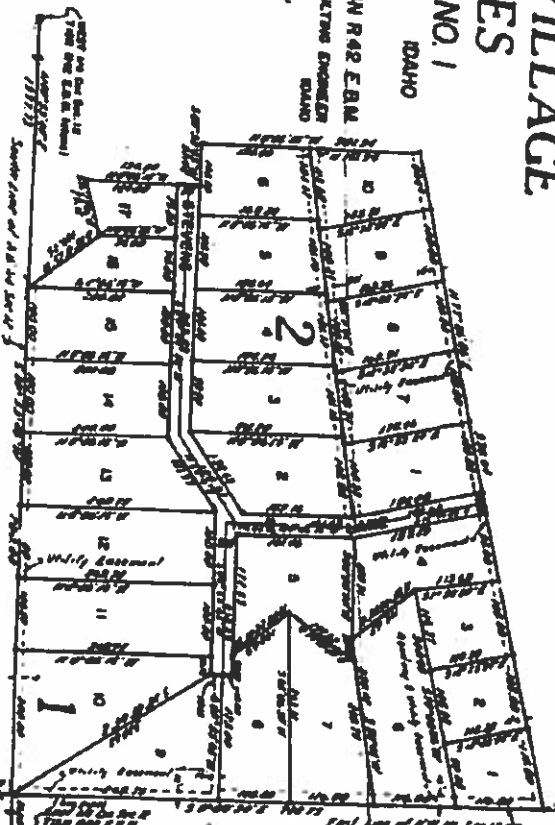


SHOTGUN VILLAGE ESTATES

DIVISION NO. 1
FREMONT COUNTY, IDAHO

THE N.W. 1/4 OF SEC. 12, T33N R42E E2M
DAVID L. KENTON
CONSULTING ENGINEER
DAVID HILLS

SCALE 1" = 100'



RECORDERS CERTIFICATE NO. 111-1001

COUNTY APPROVAL AND ACCEPTANCE

Approved by the County Engineer, Fremont County, Idaho, on this 12th day of July, 1935, as shown by the official record of the County Engineer's Office, Fremont County, Idaho, and as shown by the official record of the County Engineer's Office, Fremont County, Idaho.

David L. Kenton
County Engineer

ENGINEER'S APPROVAL

I, David L. Kenton, a duly qualified Professional Engineer, do hereby certify that the plat of the Shotgun Village Estates, Division No. 1, Fremont County, Idaho, is a true and correct copy of the original map, and that the same has been approved by me, and that the same is in accordance with the laws of the State of Idaho.

David L. Kenton
County Engineer

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David L. Kenton
County Engineer

BOUNDARY DESCRIPTION

The plat of the Shotgun Village Estates, Division No. 1, Fremont County, Idaho, is a true and correct copy of the original map, and that the same has been approved by me, and that the same is in accordance with the laws of the State of Idaho.

DEED OF DEDICATION

I, David L. Kenton, a duly qualified Professional Engineer, do hereby certify that the plat of the Shotgun Village Estates, Division No. 1, Fremont County, Idaho, is a true and correct copy of the original map, and that the same has been approved by me, and that the same is in accordance with the laws of the State of Idaho.

David L. Kenton
County Engineer

ACKNOWLEDGMENT

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David L. Kenton
County Engineer

Island Park Wells

Well No.	Well Name (Location)	Pump	Meter No.	GPS Lat	GPS Lon	Pipe Size	KWH
1	Remington	5hp	92157398	44:28.340 N	111:27.104 W	2" gal & 3" pvc	42218
2	Savage Rd.	3hp	39824466	44:28.289 N	111:27.191 W	1 1/4" & 2" gal	16724
3	Cherokee Rd	5 hp	96525436	44:27.859 N	111:27.317 W	1 1/4" & 2"	15724
4	Choctaw	5 hp	53244548	44:27.850 N	111:27.457 W	2", 3", & 1 1/4"	14754
5	Kickapoo	5 hp	94025128	44:28.082 N	111:26.797 W	1", 2", & 4"	18240
6	Stevens	1.5 hp	77957668	44:28.038 N	111:27.085 W	1 1/4"	36811 (35811)
7	Aspen Ridge Drive	5 hp	96698133	44:34.297 N	111:20.315 W	2"	01585
8	Lake View (valley View)	3 hp	91772649	44:37.419 N	111:19.527 W	2", 1 1/4"	
9	Trumpeter	3 hp	51614132	44:36.985 N	111:22.792 W	4" pue 2", 1 1/4" 1"	04547
10	Reese Drive Booster Station	1.5 hp	93392400			3", 1 1/4"	11016
11	Valley Drive (Valley View)	1.5 hp	87122932	44:37.661 N	111:19.768 W	3", 1"	04006
12	Goose Bay Drive East	5 hp	93503897	44:36.980 N	111:22.620 W	2", 1 1/4"	70123
13	Oak (Aspen Ridge)	5 hp	98078799	44:34.308 N	111:20.606 W	2", 1 1/4"	37105
14	Chickasaw	5 hp	91769077	44:27.915 N	111:27.124 W	4", 2", & 1 1/4"	13735
15	Yale Creek Road	N/A	N/A	N/A	N/A	N/A	N/A