

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 21-13082
Exam Date: 9/2/2021

1. Current Owner:
ISLAND PARK WATER CO C/O DOROTHY MCCARTY
PO BOX 2521 IDAHO FALLS ID 83403

2. Accompanied by: Dorothy McCarty
Relationship to permit Holder: Same

3. **SOURCE:**
GROUND WATER

Method of Determination: Field exam for overlapping right 21-13224

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
21-13224	Groundwater	Domestic	License

Comments: 21-13224 covers 11 of the ~133 hookups on the system.

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
21-13224	Groundwater – Same Wells	Domestic	License

Comments: _____

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

GROUND WATER SW¼ NW¼ SW¼, Sec. 12, Twp 13N, Rge 42E, B.M. FREMONT County -- "Chocktaw Well"
GROUND WATER NW¼ NW¼ SW¼, Sec. 12, Twp 13N, Rge 42E, B.M. FREMONT County -- "Cherokee Well"
GROUND WATER NW¼ NE¼ SW¼, Sec. 12, Twp 13N, Rge 42E, B.M. FREMONT County -- "Chickasaw Well"

Method of Determination: Field examination for 21-13224

PLACE OF USE: DOMESTIC

Twp	Rng	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	X	X	X		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.

 X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

 X Aerial Photo Attached (required for irrigation of 10+ acres).

 X Photo of Diversion and System Attached

4. WELL INFORMATION: There are three interconnected wells, each five HP.

D. FLOW MEASUREMENTS

Exposed pipe was not available and meters were not installed. Theoretical calculation attached demonstrates that system can produce 0.64 cfs.

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

0.64 cfs

F. VOLUME CALCULATIONS

0.6 AF/year/hookup in-home Use + 0.6 AF/year/hookup outdoor use = 1.2 AF/year/hookup * 122 hookups = 146.4 AF/year
If pumped for 365.25 days at full, the system would yield 463.7 AF, greater than the 146.4 AF required.

G. NARRATIVE/REMARKS/COMMENTS

Serves ~130 hookups in the Shotgun Village Estates subdivision, and three in the Chickasaw Frontage Subdivision.
Overlapping right 21-13224 covers 11 of the 130 hookups in the Shotgun Village Estates Subdivision. This right is for the remaining 122 hookups.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.64 CFS	146.4 AF

Totals: 0.64 CFS 146.4 AF

2. Recommended Amendments

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

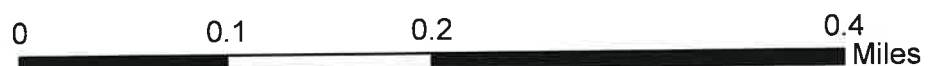
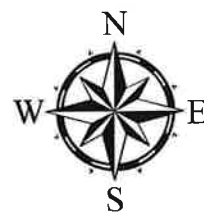
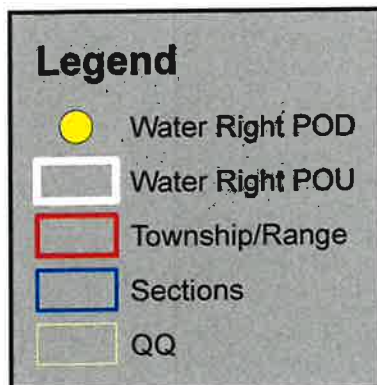
☐ Change P.U. as reflected above ☒ Add P.U. as reflected above ☐ None

I. AUTHENTICATION Cooper Fritz - Water Resource Agent, Senior

Field Examiner's Name Cooper Fritz Date 9/20/2021

Reviewer _____ Date _____

21-13082 Place of Use and Points of Diversion at Licensing





Cherokee Well

21-13082



Chickasaw Well



Chocktaw Well

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
Department of Water Resources
Idaho State District Office

1. WELL OWNER Name <u>Island Park Water Co.</u> Address <u>Shotgun Well No. 5</u> <u>330 A Street Idaho Falls, Idaho</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>12</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality <u>good</u> Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																											
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Other Discharge G.P.M. _____ Draw Down _____ Hours Pumped _____																																																											
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>6</td><td>0</td><td>1</td><td>Topsoil</td><td></td><td></td></tr><tr><td></td><td>1</td><td>25</td><td>Sand and Gravel</td><td></td><td></td></tr><tr><td></td><td>25</td><td>47</td><td>Gravel</td><td>x</td><td></td></tr><tr><td></td><td>47</td><td>50</td><td>Clay and Broken Shale</td><td></td><td></td></tr><tr><td></td><td>50</td><td>52</td><td>Hard Shale</td><td></td><td></td></tr><tr><td></td><td>52</td><td>53</td><td>Broken Shale</td><td>x</td><td></td></tr><tr><td></td><td>53</td><td>70</td><td>Hard Gray Shale</td><td></td><td></td></tr><tr><td>6</td><td>70</td><td>71</td><td>Pea Gravel</td><td>x</td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	6	0	1	Topsoil				1	25	Sand and Gravel				25	47	Gravel	x			47	50	Clay and Broken Shale				50	52	Hard Shale				52	53	Broken Shale	x			53	70	Hard Gray Shale			6	70	71	Pea Gravel	x	
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4. METHOD DRILLED ☐ Cable ☒ Rotary ☐ Dug ☐ Other		100430																																																											
5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>71</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness _____ inches Diameter _____ inches From _____ feet To <u>50' 7"</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 <u>19+</u> Material used in seal ☐ Cement grout ☒ Bentonite ☐ Pudding clay ☐ Well cuttings Sealing procedure used ☐ Sherry pit ☐ Temporary surface casing ☒ Overbore to seal depth																																																													
6. LOCATION OF WELL Each map location must agree with written location.  Subdivision Name <u>Shotgun Village</u> Lot No. _____ Block No. _____ County <u>Fremont</u> <u>SW 1/4 NW 1/4 Sec. 12 T. 13 N. 43 E. 1/4</u>		10. Work started <u>Aug. 9, 1972</u> finished <u>Aug. 9, 1972</u>																																																											
11. DRILLERS CERTIFICATION Firm Name <u>Andrew Well Drilling Contr.</u> Firm No. <u>5</u> Address <u>1268 East 17th Street</u> Date <u>4-20-76</u> <u>Idaho Falls, Idaho 83403</u> Signed by (Firm Official) <u>Robert H. Hansen</u> and (Operator) <u>Alfred Hight</u> 4330																																																													

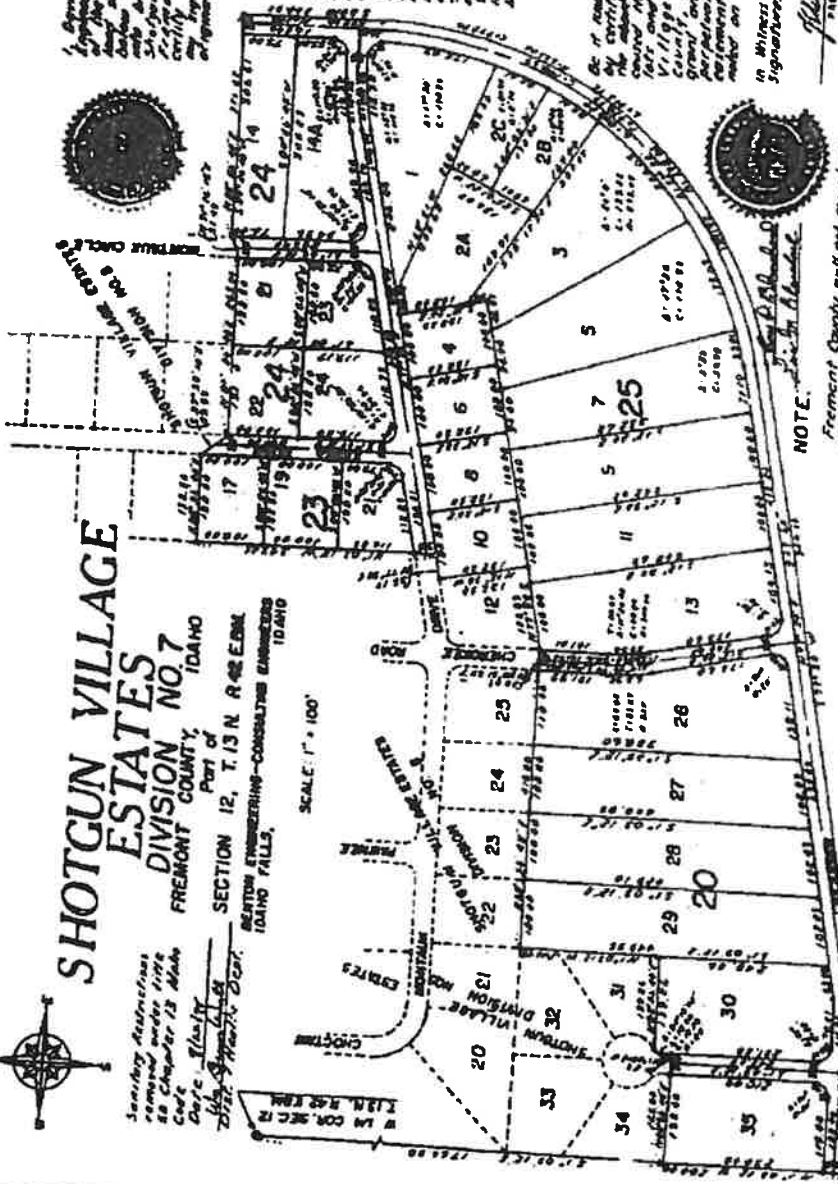
USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

Sanitary instructions
removed under title
88 Chapter 12 Abuse
Code
Dore: Gladys
Dore: Gladys
Dore: Gladys

HOTGUN VILLAS
ESTATES
DIVISION NO. 7
FREMONT COUNTY,
Part of
IDAHOO
SECTION 12, T.13 N. R.42 E.2M.
SALTWATER ENGINEERING-CONSULTING ENGINEERS
IDAHO FALLS, IDAHO

SCALE: 1" = 100'



NOTE: Twelfth Amendment

Fremont County will not maintain roads until construction to a standard agreement and

PLANNING & ZONING COMMISSION APPROVAL
 Approved by the Planning & Zoning Commission on the 1st day of July, A.D. 1928, at which time the said application was approved and accepted.
 Attest:

James E. Kilian
Chairman

Approved to the
County Board of Commissioners
this 12th day of August, 1924, at which time
presented for approval
Chairman

Start of book, County of San Diego,
 Book 100, Page 1,
 Recorder's Certificate No. 100

ENGINEER'S APPROVAL

ENGINEER'S APPROVAL

I certify that I have read this plan and examine and find it to be correct and acceptable

DATE: JUN 13 1960

Signature of Engineer

County Engineer

Received of the
 Secretary of the
 Board of Education
 the sum of \$100.00
 for the purpose of
 purchasing books
 for the library
 of the Board of
 Education.
 Witness my hand
 and the seal of the
 Board of Education
 this 10th day of
 April, 1904.
 Secretary of the Board of Education

State of Texas
County of Harris

[illegible]

DEED OF DEDICATION

[illegible]

in witness whereof we have signed in our
signature this 22nd day of June A.D. 1886

Phonetic Study! Legend: transliteration

ANNA 215
JUL 06 7 30 AM '55

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 21-13224
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: None.
2. Other water rights with the same point-of-diversion: None, although permit 21-13082 likely covers the remaining ~119 hookups.

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

GROUND WATER NW¼SW¼ Sec. 12, Twp 13N, Rge 42E, B.M. FREMONT County
GROUND WATER NW¼SW¼ Sec. 12, Twp 13N, Rge 42E, B.M. FREMONT County
GROUND WATER NE¼SW¼ 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	X	X			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.

X

X Aerial Photo Attached (required for irrigation of 10+ acres).

X Photo of Diversion and System Attached

4. Well Information

The system consists of three interconnected 5 hp wells known as the Chocklaw Well (SWNWSW of Section 12), the Cherokee Well (located in the NENWSW of Section 12), and the Chickasaw Well (located in the NESW of Section 12).

D. FLOW MEASUREMENTS

None of the three wells had enough exposed pipe on which to place a flow meter, so theoretical flow calculations are included on an attached spreadsheet.

It is of note that the legal descriptions listed on the three well logs used in the theoretical measurements are in error. However, Application for Permit 21-13082, which is for the remaining domestic hookups in this system from the same three wells, explicitly identifies which well logs belong to each of the three wells.

No drawdown correction was applied to the static water level as part of the theoretical measurements. 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 at 300 gpm for ½ hour.

E. FLOW**CALCULATIONS**

✓ Additional Computation Sheets Attached

The system can produce 0.70 cfs. However, this right will be limited to 0.05 cfs based on parent permit 21-7443.

Permit 21-7443 was to cover 100 homes with a rate of 0.40 cfs. The right covers 11 of those homes.

$0.40 \text{ cfs} / 100 \text{ hookups} * 11 \text{ hookups} = 0.05 \text{ cfs}$.

F. VOLUME CALCULATIONS

0.6 AFA in-home use/hookup

0.6 AFA domestic irrigation/hookup

$0.6 \text{ AFA in-home use/hookup} + 0.6 \text{ AFA domestic irrigation/hookup} = 1.2 \text{ AFA/hookup} * 11 \text{ hookups/system} = 13.2 \text{ AFA/system}$.

G. NARRATIVE/REMARKS/COMMENTS

Three interconnected wells serving ~130 hookups. This license is for 11 of those hookups. The remaining hookups are likely covered by permit 21-13082.

The determination of ~130 total hookups on the system was made by examining the lots' property owners, and, using 2015 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.

The 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 that 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	13.20 AF
	<u>Totals:</u>	0.05 CFS	13.20 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 5/3/2017

Reviewer James Cefalo Date 5/8/17

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 21-13224

Examiner: Cooper

Date of Field Exam: 10/15/2015

P/D No.:	Cherokee	Chickasaw	Chocktaw	
PUMP HORSEPOWER	5	5	5	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	50	22	17	
DISCHARGE PRESSURE	50	50	50	
FRICTION	0	0	0	
RATE OF FLOW (cfs)	0.19	0.22	0.23	Total
(gpm)	83.5	100.5	104.3	0.64

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 logs. Hp was emailed. A standard psi for domestic use of 50 psi was used to estimate the pressure against the pump.