

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 21-13081
Exam Date: 8/26/2021

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

2. Accompanied by: Dorothy McCarty

3. **SOURCE:**
GROUND WATER

Method of Determination: Source is two wells.

B. OVERLAP REVIEW

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

Water right 21-4146 covers five homes within the same subdivision from the same system. It was owned by Island Park Water Company at the time of this report. This right covers 250 homes. 21-7399, 21-11229, 21-10835, and 21-12535 are privately held domestic rights. These rights are supplementary to this system in their respective places of use.

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

21-4146 overlaps in the well in the NWNE of Section 2.

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

GROUND WATER L1 (NE $\frac{1}{4}$ NE $\frac{1}{4}$), Sec. 2, Twp 14N, Rge 43E, B.M. FREMONT County
GROUND WATER L2 (NW $\frac{1}{4}$ NE $\frac{1}{4}$), Sec. 2, Twp 14N, Rge 43E, B.M. FREMONT County

Method of Determination: Aerial photography and GPS.

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	
14N	43E	2	X L1	X L2	X	X													

Method of Determination: Aerial Photography 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
X 1:24,000 or greater.

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

 X Photo of Diversion and System Attached

4. Pump information: Two wells, each with a five hp pump.

D. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: Theoretical, please see attachment.

E. VOLUME CALCULATIONS

Standard volume: 0.6 AF indoor use + 0.6 AF outdoor use per lot = 1.2 AF/lot.
1.2 AF/lot * 250 lots = 300 AF total

However this right's volume will be limited by its rate:

$$0.31 \text{ cfs} \times 365 \text{ days} \times \frac{1.9835 \text{ af}}{\text{cfs-day}} = 224.4 \text{ af} \Rightarrow 225 \text{ af}$$

F. NARRATIVE/REMARKS/COMMENTS

This is a domestic right for 250 homes within Aspen Ridge Subdivisions 1 and 2. No "stub-in" plat map was available for the system, which was developed in the late 1980s. System can service every lot in the subdivision per Dorothy McCarty. Not all lots have homes on them at the time of this examination. Approximately 150 homes were developed at licensing.

Additionally, it is not abnormal for the same entity to own two or more adjacent lots, with a house on only one.

The subdivision has ~270 lots. Overlapping right 21-4146, also owned by Island Park Water Company, serves five homes within the subdivision. 21-4146 is diverted from the well in L1 (NENE). This right has a combined limit with right 21-4146 because its rate is limited to below the standard rate and volume (see Sections D and E above).

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>Rate of Diversion</u>	<u>Annual Diversion Volume</u>
DOMESTIC	01/01 to 12/31	0.31 cfs	225 af

Totals:

0.31 cfs

225 af

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

I. AUTHENTICATION

Cooper Fritz - Water Resource Agent, Senior

Field Examiner's Name Cooper Fritz Date 9/7/2021

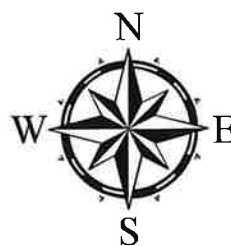
Reviewer Date

21-13081 Place of Use and Points of Diversion at Licensing



Legend

-  Water Right POD
-  Water Right POU
-  Township/Range
-  Sections
-  QQ



0 0.05 0.1 0.2 Miles

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 21-13081
Reviewer: Cooper Fritz
Date of Review: 8/26/2021

P/D No.:	Senerio 1	Senerio 2
PUMP HORSEPOWER	5	5
BOOSTER HORSEPOWER	0	0
PUMPING LEVEL	100	117
DISCHARGE PRESSURE	40	40
RATE OF FLOW (cfs)	0.160083	0.147087
		TOTAL
		0.31

The above calculates the formula = $Q = 8.8 * (\text{Efficiency}) * \text{hp}$
depth to water + 2.31*(psi)+friction

Assumptions: %70 efficiency.
No Friction

Examiners Notes: Assumed pumping level 20 feet below static level reported on Well Drillers Reports.

Upper / Western Well House



Upper / Western Well Vault
(P21201)
(located)



3/96

ANDREW

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

Office Use Only

Inspected by _____

Twp _____ Rge _____ Sec _____

_____ 1/4 _____ 1/4 _____ 1/4

Lat : : Long : :

1. DRILLING PERMIT NO. 21-98-E-0079-000

Other IDWR No. Tag: D0006314/Water Right: 21-07582

2. OWNER:

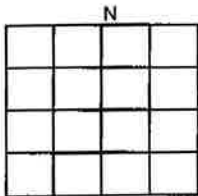
Name Island Park Water Co

Address P.O. Box 2521

City Idaho Falls, State ID Zip 83403

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Twn 14 North ☒ or South ☐Rge. 43 East ☒ or West ☐

Sec. 2 1/4, NW 1/4 NE 1/4

10 Acres 40 Acres 160 Acres

Gov't Lot _____ County Fremont

Lat : : Long : :

Address of Well Site _____

City Island Park

(Give at least name of Road+ Distance to Road or Landmark)

Lot No. _____ Block No. _____ Subd. Name Aspen Ridge

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	
Material	From	To	Sacks or Pounds	Method
Bentonite	0		600#	Overbore
Cement	296	160	7238#	

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 296ftWas drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Dia	From	To	Gauge	Material	Casing	Liner
8	+1.5	296	250	steel	☒	☐

Length of Headpipe: _____ Length of Tailpipe: _____

9. PERFORATIONS/SCREENS:

☐ Perforations Method _____☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

97 ft below ground Artesian pressure _____ lb

Depth flow encountered _____ ft Describe access port or

control devices: Well Seal

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
500gpm			1 hr

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12	0	3	Top Soil		X
	3	22	Fractured Brown Rhyolite		X
	22	44	Brown Rhyolite		X
	44	56	Hard Gray Rhyolite		X
	56	89	Broken Gray Rhyolite		X
	89	118	Hard Gray Rhyolite	X	
	118	126	Gray Rhyolite		X
	126	160	Green Sand & Silt		X
8	160	162	Green Sand & Silt		X
	162	186	Gray Clay		X
	186	204	Gray Sand		X
	204	296	Gray Clay & Silt		X
	296	307	Gray Rhyolite		X
	307	325	Tan Rhyolite		X
	325	334	Brown Cinder	X	
	334	340	Brown Rhyolite	X	

MICROFILMED

MAR 11 1998

RECEIVED

NOV 27 1998

NOV 12 1998

Department of Water Resources
Eastern Region

Department of Water Resources

Completed Depth 340ft (Measurable)

Date: Started: 10/21/98 Completed: 10/30/98

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm: Andrew Well Drilling Services, Inc. Firm #5

Firm Official: _____ Date: 11/9/98

and

Supervisor/Operator: Matt Gilbert Date: 11/9/98

Sign one if Firm Official & Operator

Lower / Eastern 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

1. WELL OWNER Name <u>Island Park Water Co.</u> Address <u>Aspen Ridge Island Park</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>80</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 ☐ Pumo ☐ Bailer ☐ Other <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Draw Down</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Draw Down	Hours Pumped																																		
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 rowspan="2">Water Yes / No</th></tr><tr><th>From</th><th>To</th></tr></thead><tbody><tr><td>6</td><td>0</td><td>15</td><td>Dirt</td><td> </td></tr><tr><td> </td><td>15</td><td>20</td><td>Dirt and Clay</td><td> </td></tr><tr><td> </td><td>20</td><td>55</td><td>Dirt</td><td> </td></tr><tr><td> </td><td>55</td><td>63</td><td>Soft Sandstone</td><td> </td></tr><tr><td> </td><td>63</td><td>98</td><td>Hard Shalerock</td><td>X</td></tr><tr><td>6</td><td>98</td><td>116</td><td>Softer Shalerock</td><td>X</td></tr></tbody></table>		Hole Diam.	Depth		Material	Water Yes / No	From	To	6	0	15	Dirt			15	20	Dirt and Clay			20	55	Dirt			55	63	Soft Sandstone			63	98	Hard Shalerock	X	6	98	116	Softer Shalerock	X
Hole Diam.	Depth		Material		Water Yes / No																																			
	From	To																																						
6	0	15	Dirt																																					
	15	20	Dirt and Clay																																					
	20	55	Dirt																																					
	55	63	Soft Sandstone																																					
	63	98	Hard Shalerock	X																																				
6	98	116	Softer Shalerock	X																																				
4. METHOD DRILLED ☐ Cable ☒ Rotary ☐ Dug ☐ Other		Lower / Eastern well 100507																																						
5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>116</u> feet Casing schedule: ☒ Steel ☐ Concrete <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>.250</u> inches</td><td><u>6</u> inches</td><td><u>1</u> feet</td><td><u>63</u> feet</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table> 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 <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table> 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 ☐ Shurry pit ☐ Temporary surface casing ☐ Overbore to seal depth				Thickness	Diameter	From	To	<u>.250</u> inches	<u>6</u> inches	<u>1</u> feet	<u>63</u> feet																	Number	From	To										
Thickness	Diameter			From	To																																			
<u>.250</u> inches	<u>6</u> inches			<u>1</u> feet	<u>63</u> feet																																			
Number	From	To																																						
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name <u>Aspen Ridge</u> Lot No. _____ Block No. _____ County <u>Fremont</u> <u>NE 1/4 NE 1/4 Sec. 2 T. 14 N. R. 43 E.</u>		10. Work started <u>9-28-70</u> finished <u>9-29-70</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 83402</u> Signed by (Firm Official) <u>Andrew J. Andrew</u> and (Operator) <u>Paul J. Andrew</u>																																								

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT