

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-334871. Owner Jordan JohnsonPhone No. 432-234-9763Current address 11137 County Road 348, Abilene, TX 796012. Examiner's name Cody ParkerEXAM DATE 02/23/20183. Accompanied by None (correspondence with owner)

Email _____

Address SameRelationship to permit holder Same

Phone No. _____

4. Source Groundwatertributary to Boise River**B. OVERLAP REVIEW**1. Other water rights with the same place of use None2. Other water rights with the same source and point of diversion None**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			NW	NE	16	04N	03W	Canyon	Aerial imagery, digital PLS map
									(pond centroid)

2. Place(s) of Use: Method of determination Aerial imagery, digital PLS map

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	03W	16		X															

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
None					

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NA						

2. Measurements: _____

Capacity and evap for pond intercepting shallow groundwater, see volume calculation below

E. NARRATIVE/REMARKS/COMMENTS

This permit was approved on May 5, 2011 authorizing the storage of 53.0 afa for recreation and aesthetic uses. Proof of Beneficial Use was submitted on May 3, 2016. I completed this field exam on February 23, 2018. I was given permission from the owner to complete the field exam without anyone present. The permit authorizes capture of groundwater in a pond with no diversion, so I found doing the field exam alone to be appropriate.

The pond is 2.0 acres in surface area and a maximum of 8 ft deep according to the owner. The capacity of the pond is 6.4 af. The entire pond is located in the NWNE of Sec. 16, T04N, R03W, B.M. The pond intercepts shallow groundwater so the POD is the pond centroid, which is located in the same QQ.

The intent of the right was to create a pond as part of a water sports complex. It is clear that the sports complex was developed as there are several ramps and docks in the water, and benches and (presumably) changing sheds on the shore. However, my phone conversation with the owner leads me to believe the pond was never used as intended. The sports complex is clearly not in operation at this time. The pond as developed is much smaller than was proposed and it seems unlikely that there is enough room for the proposed uses. However, the pond has been established and its current use could be described as aesthetic storage. Therefore, I have recommended licensing the use as aesthetic storage while dropping the recreation storage component. The volume for aesthetic use is the capacity and the evaporative losses.

There are no overlapping water rights. The pond is outside the GW Restricted area so no mitigation is required.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☐ Additional computation sheets attachedMeasured Method:
NA**G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{NA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \text{NA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{NA}$$

2. Volume Calculations for Other Uses:

$$\text{Capacity} = 2.0 \text{ acres surface area} \times 8 \text{ ft max depth} \times 0.4 = 6.4 \text{ af}$$

$$\text{Evap} = 5.2 \text{ af per pond loss spreadsheet, Caldwell (NWS -- 101380) data}$$

$$\text{Total volume} = \text{Capacity} + \text{Evap} = 11.6 \text{ afa}$$

H. RECOMMENDATIONS

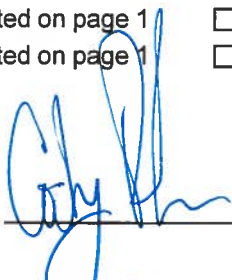
1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Aesthetic Storage	01/01	12/31		11.6 afa
Totals:				11.6 afa

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature



Date

2/28/18

Reviewer



Date

2/28/18

SEAL

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Figure 1 The 2-acre pond where water is being stored for aesthetic purposes



Figure 2 The seating and picnic area that has fallen apart since the project was abandoned.

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Figure 3 This sign shows that the park was intended to be a cable-towed water sports facility. It does not appear that the towing equipment was ever installed at the site.



Figure 4 This shed may have been for changing or for storage. There also appears to be power at the site though nothing is operating at this time.

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63-33487

AESTHETIC STORAGE

03W



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.035 0.07 0.14 Miles



Evaporation Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

FILE NUMBER	63-33487
REVIEWER	Cody Parker
DATE	2/23/2018

User Input
Calculated value
Formula Explanations

The acronyms used on the Kimberly Research Center website are defined below:
P = Precipitation
ET= Evapotranspiration
P _d = Precipitation deficit
P _d =ET-P

USING THIS SPREADSHEET

Use the link below to access the Kimberly Research Center website. This website provides the Precipitation Deficit for a station most representative of the pond under examination. The Precipitation Deficit is the total amount of free water surface evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used throughout the state. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at <X:/Spatial/Climate/ETIdahostations.shp>.

Instructions:

1. Use the link below to navigate to ET Idaho 2012.
2. Select the station which is most representative to your pond location.
3. Click Submit Query.
4. Under "Land Covers with Evapotranspiration Estimates," select "Open Water - Shallow Systems (ponds, streams)" or "Open Water - small stock ponds" depending on the pond size.
5. Click the link to "Precipitation Deficit."
6. Reference and copy (ctrl + C) the first subheading "Mean" values.
7. Click the "Paste Values from ET Idaho" button. The table will automatically enter a zero (0) for any negative precipitation deficit values.

Found at: <http://data.kimberly.uidaho.edu/ETIdaho/>

Precipitation Deficit

Station: Caldwell (NWS -- 101380)

Month	mm/day ¹	Days per month	mm/Month
Jan	-0.83	31	0.00
Feb	0.18	28	5.04
March	1.22	31	37.82
April	2.51	30	75.30
May	3.74	31	115.94
June	4.22	30	126.60
July	5.01	31	155.31
August	4.27	31	132.37
September	3.06	30	91.80
October	1.89	31	58.59
November	-0.12	30	0.00
December	-0.78	31	0.00

Total mm/year = 798.77

PLEASE NOTE: The seasonal average for precipitation deficit should not be used for calculations because precipitation often exceeds evaporation during wetter months of the year. If the pond is kept full, excess precipitation during wetter months does not serve to refill the pond during drier months.

For example, see Sandpoint KSPT (NWS -- 108137), the annual precipitation deficit is -106 mm. However, April through September have positive precipitation deficit values. To properly estimate the annual volume of water necessary to refill a pond due to evaporation losses, the table will automatically enter a zero (0) for each month that the precipitation value is reported as a negative value.

As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

$$[(\text{mm/yr}) \div (\text{convert to feet})] \times (\text{Surface area of pond, in acres}) = \text{Evaporation Loss in Acre Feet}$$

$$(798.77 \div 304.8) \times 2.00 = 5.2 \text{ AFA}$$

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04N03W16	Basin/Source/Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NENE	NWSE	SWSE	SESE	Total Acres
63-10674	CITY OF (GROUND) MUNICIPAL																			
63-12144	CITY OF (GROUND) MUNICIPAL																			
63-12379	MOTOR V GROUND FIRE PROTECT																			
61-136	CANYON BOISE R/IRRIGATION																			
63-15058	PIERCE C (GROUND) DOMESTIC																			
63-15058	PIERCE C (GROUND) DOMESTIC																			
63-19760	SMITH R (GROUND) DOMESTIC																			
63-19761	CONWAY GROUND DOMESTIC																			
63-19762	SMITH R (GROUND) DOMESTIC																			
63-21002	ROYVINSK GROUND DOMESTIC																			
63-21212	UNITED SPIRE GULF IRRIGATION																			
63-22361	CITY OF (GROUND) DOMESTIC																			
63-22361	CITY OF (GROUND) DOMESTIC																			
63-226	BARKER, BOISE R/IRRIGATION																			
63-227	BARKER, BOISE R/IRRIGATION																			
63-2279	BARKER, INDIAN C IRRIGATION																			
63-228	BARKER, BOISE R/IRRIGATION																			
63-229	BARKER, BOISE R/IRRIGATION																			
63-232	UNITED SELAH H/IRRIGATION																			
63-23313	CHUSNELI GROUND DOMESTIC																			
63-23316	AMERICA P BOISE R/IRRIGATION																			
63-23691	CLACK, A GROUND DOMESTIC																			
63-2374	BARKER, INDIAN C IRRIGATION																			
63-2389	BARKER, ARGENA L IRRIGATION																			
63-252	CANYON BOISE R/IRRIGATION																			
63-25663	TUCKER, GROUND DOMESTIC																			
63-25663	TUCKER, GROUND STOCKWATER																			
63-266	BARKER, BOISE R/IRRIGATION																			
63-267	BARKER, BOISE R/IRRIGATION																			
63-268	BARKER, BOISE R/IRRIGATION																			
63-28393	BROWN, GROUND DOMESTIC																			
63-28393	BROWN, GROUND STOCKWATER																			
63-2878	BLACK C. SELAH I IRRIGATION																			
63-2878	BLACK C. WILSON I IRRIGATION																			
63-299	BARKER, BOISE R/IRRIGATION																			
63-300	BARKER, BOISE R/IRRIGATION																			
63-30425	MOTOR V GROUND DOMESTIC																			
63-31283	CITY OF (GROUND) MUNICIPAL																			
63-31550	CITY OF (GROUND) MUNICIPAL																			
63-32024	CITY OF (GROUND) MUNICIPAL																			
63-32025	CITY OF (GROUND) MUNICIPAL																			
63-32026	CITY OF (GROUND) MUNICIPAL																			
63-32027	CITY OF (GROUND) MUNICIPAL																			
63-32033	CITY OF (GROUND) MUNICIPAL																			
63-32287	FOREMAN GROUND DOMESTIC																			
63-32289	CONWAY BOISE R/IRRIGATION																			
63-32579	UNITED S BOISE R/IRRIGATION FR																			
63-32663	CONWAY BOISE R/IRRIGATION																			
63-32664	CONWAY BOISE R/IRRIGATION																			
63-33252	BARKER, EAST ARI IRRIGATION																			
63-33487	JOHNSON GROUND AESTHETIC STL																			
63-33682	BARKER, CIBISTIA IRRIGATION																			
63-33715	BARKER, WEST EN IRRIGATION																			
63-33766	BARKER, MAMMIE IRRIGATION																			
63-33768	BARKER, MAMMIE IRRIGATION																			
63-3441	CITY OF (GROUND) MUNICIPAL																			
63-349	CANYON BOISE R/IRRIGATION																			
63-4007	BARKER, MEADOW IRRIGATION																			
63-4008	BARKER, MAMMIE IRRIGATION																			
63-4010	BARKER, WEST EN IRRIGATION																			
63-4926	STATE OF PONDS RECREATION S																			
63-5051	CITY OF (GROUND) MUNICIPAL																			
63-5053	CITY OF (GROUND) MUNICIPAL																			
63-5054	CITY OF (GROUND) MUNICIPAL																			
63-5055	CITY OF (GROUND) MUNICIPAL																			
63-7158	CITY OF (GROUND) MUNICIPAL																			
63-7910	CITY OF (GROUND) MUNICIPAL																			
63-8008	CITY OF (GROUND) MUNICIPAL																			
63-8209	CITY OF (GROUND) MUNICIPAL																			
63-8906	CITY OF (GROUND) MUNICIPAL																			
63-8907	CITY OF (GROUND) MUNICIPAL																			
63-9358	CITY OF (GROUND) MUNICIPAL																			
65-2433	UNITED SPALETTE IRRIGATION																			
65-2903	BLACK C. TUNNEL IRRIGATION																			

Different use no overlap

BasinSeq: Owner Source

NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
X															
			X										X		
												X			
												X			
												X			
									X						
													X		
															X
								X							
X														X	
												X			
												X			
												X			
	X											X			

IDAHO DEPARTMENT OF WATER RESOURCES

WESTERN REGION

2735 Airport Way

Boise, Idaho 83705-5082

RETURN SERVICE REQUESTED

JORDAN JOHNSON
3011 BOARDWALK AVE
MIDLAND TX 79705

446559 0327

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WESTERN REGION

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JOHNSON
3011 BOARDWALK AVE
MIDLAND TX 79705-5344
RETURN TO SENDER



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

January 22, 2018

JORDAN JOHNSON
3011 BOARDWALK AVE
MIDLAND TX 79705

RE: Water Right Permit No. 63-33487

Dear Permit Holders,

I am writing today in regard to the water right permit referenced above which authorizes the diversion of 53 acre-feet groundwater for recreation and aesthetic storage. On May 3, 2016, you submitted Proof of Beneficial Use for this permit stating that your project is fully developed. The next step in the water appropriation process is to complete a Beneficial Use Field Examination to determine the extent to which water use was developed under the permit. The field examination is the final step before the Department can issue a water right license.

If you did not develop a beneficial use of water during the development period, a license cannot be issued and the permit should be relinquished. If the use *was* developed, but you have ceased using the water and have no further interest in pursuing a water right license, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

Please contact me within the next thirty (30) days to schedule a field examination for your water right permit. You can reach me by phone at 208-334-2190 or by email at cody.parker@idwr.idaho.gov. If you no longer own the place of use, the Department will work with the current property owner to issue a license or void the permit. If you still own the property, but do not make a timely response in this regard, the permit will be voided.

Please let me know if you have any questions regarding the content of this letter. I appreciate your attention to this matter, and I look forward to hearing from you.

Respectfully,

Cody Parker
Water Resource Agent
IDWR Western Region

Enclosed: WR Report, WR Map, Relinquishment of Permit