

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. 63-318311. Owner MC Ventures LLCPhone No. 208-529-3312Current address PO Box 1604, Idaho Falls, ID 834032. Examiner's name Cody ParkerEXAM DATE 01/22/20183. Accompanied by Scott HawkerEmail hawker@morgan-construction.comAddress sameRelationship to permit holder Project ManagerPhone No. 208-529-33124. Source Groundwater

tributary to _____

B. OVERLAP REVIEW1. 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
	2		NW	NE	3	03N	03W	Canyon	GPS, digital PLS map

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	
03N	03W	3		C															
				L2															

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
D0031748					2"

*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
None						

2. **Measurements:** _____

0.81 acres irrigated

largest sprinkler station => 35 heads, 12' to 15' radius, 55 gallons per minute max diversion

E. NARRATIVE/REMARKS/COMMENTS

This permit authorized the diversion of 0.32 cfs groundwater for domestic use in 8 separate commercial buildings which was meant to include irrigation of landscaping and lawn areas surround the buildings. The permit was issued this way to allow development of the system during an existing moratorium. The proof of beneficial use was submitted on April 1, 2014. I completed the field examination on January 22, 2018.

Water is diverted from an 8" well to a 2" steel line to a sprinkler system used to irrigate 0.8 acres of landscaping surrounding six commercial buildings. The well is located at N 43 37' 56.6" by W 116 40' 50.6". There is no metal tag on the well casing but the well driller report for the well at that location shows a tag number of D0031748. The owners do not have any information concerning the pumping system. The buildings themselves were never hooked up to the well; internal-use water is provided by the local municipal system. There are no other uses of the well.

The irrigation is directed by a Rain Bird timer which controls irrigation of several different zones. The largest zone contains 35 sprinkler heads with a mixture of 12' to 15' spray diameters. The maximum diversion rate, according to the landscape contractor, is 55 gpm (0.12 cfs). There are no other rights providing water for irrigation. They do not have access to surface water shares from any irrigation companies.

The way the permit was written seems to indicate that the intended use was commercial and was framed as domestic to be approved during a moratorium. The permit included the irrigation of landscaping surrounding the commercial buildings but the irrigation was to be developed alongside the internal use of water for commercial buildings. For the license I propose : 1. the beneficial use be changed back to commercial use to more accurately portray the intent of the right 2. the commercial use be limited by the irrigation developed which is 0.12 cfs and 3.6 afa (from the 4.5 afa/ acre headgate value) and 3. irrigation use is tied to the commercial tax parcels and the diversion rate cannot exceed 0.04 cfs per parcel (to prevent future internal use from adding diversion rate). No amendment will be required to change the beneficial use since the permit was developed in the manner intended.

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?

Conditions:

067 is not used on licenses, replace with 01M

drop 102 => no evidence that surface water shares have been used/were available at this property

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

Information received from the irrigation contractor regarding the irrigation system.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.8 \text{ acres} \times 4.5 \text{ afa/acre} = 3.6 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 86.9 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.6$$

2. Volume Calculations for Other Uses:

Commercial volume from the irrigation described above

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Commercial	01/01	12/31	0.12 cfs	3.6 afa
Totals:			0.12 cfs	3.6 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

2-6-18

Reviewer

Date

2-6-18

SEAL

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Figure 1 The 8" well providing water for irrigation of the landscaping surrounding the commercial buildings.



Figure 2 The 2" steel line from the well leading to the irrigation valves which are controlled by a RainBird timer

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Figure 3 Irrigation valves controlled by the RainBird timer



Figure 4 Hunter 3.0 sprinkler head with blue nozzle used primarily in the larger lawn sections surrounding the buildings

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Figure 5 Green-nozzled RainBird sprinkler heads used to irrigate medians in the parking lot and more confined areas of the lawn.



Figure 6 Drip irrigation lines used to water shrubs and trees surrounding buildings. The drip irrigation is negligible when compared to the use of water using sprinklers. Drip lines are on separate irrigation zones than sprinklers.

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Figure 6 Main lawn areas irrigated surrounding the commercial buildings.



Figure 7 Shrub landscaping irrigated from the drip system.

State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-31831

COMMERCIAL



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

0 0.035 0.07 0.14 Miles



Parker, Cody

From: Scott Hawker <hawker@morgan-construction.com>
Sent: Friday, January 26, 2018 9:59 AM
To: Parker, Cody
Cc: 'Ryan Gregersen'
Subject: FW: Water right permit 63-31831

Cody

I had my landscape contractor go to Clocktower in Caldwell and look over the existing sprinkler system. His notes are listed below. Please let me know if this helps and if you need any further information.

Scott Hawker
Project Manager
(cell) 208.794.4604



P.O. Box 1604
Idaho Falls, ID 83403
(P) 208.529.3312
(F) 208.529.5563
License # RCE-1697
Equal Opportunity Employer

From: Clyde Lingo [mailto:clydel@cuttingedgelandscape.com]
Sent: Friday, January 26, 2018 8:51 AM
To: Scott Hawker <hawker@morgan-construction.com>
Cc: Ryan Gregersen <ryan@morgan-construction.com>
Subject: RE: Water right permit 63-31831

Here is what I got back from our techs. I think this should be all they need. Thanks.

"The largest single station is 55 gallons a minute. It is a pop up station that runs all of the turf around the S.E building. There are roughly 35 heads on that zone and is a mix of 12'-15' spay nozzles."

From: Scott Hawker [mailto:hawker@morgan-construction.com]
Sent: Wednesday, January 24, 2018 12:21 PM
To: Cutting Edge, Clyde Lingo <clydel@cuttingedgelandscape.com>
Cc: 'Ryan Gregersen' <ryan@morgan-construction.com>
Subject: FW: Water right permit 63-31831

Clyde

I am going to need your help on a matter in Caldwell. The irrigation for the Clocktower subdivision has been provided by and well that was installed at the beginning of the project, forever ago. We have working under the well permit this entire time. Now the project is close to being finished the permit will be completed and the subdivision will have a legal water rights license written up. One of the items Cody Parker with Department of Water Resources is needing is some

details on the water usage for the current sprinkler system. You can read his email below. Would you schedule a time when one of your landscape employees could go to Clocktower and get me the information on the usage. We will be happy to pay for the service. Please let me know if you are bale to help and if so what you find out. Thanks

Scott Hawker
Project Manager
(cell) 208.794.4604



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From: Parker, Cody [<mailto:Cody.Parker@idwr.idaho.gov>]
Sent: Wednesday, January 24, 2018 7:54 AM
To: hawker@morgan-construction.com
Cc: ryan@morgan-construction.com
Subject: Water right permit 63-31831

Hey Scott,

Thanks again for meeting with us on Monday for the field exam. To finish my report and recommend a water right license I need to determine the maximum diversion rate that you use for the irrigation of landscaping. I need to know the maximum number of sprinklers that run at one time. Once I get that information I should be able to finish my report and recommend a license. Thanks again for your help.

Best,

Cody Parker
Water Resource Agent
IDWR Western Region

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only	
Well ID No.	819680
Inspected by	
Twp	Rge Sec
1/4	1/4 1/4
Lat:	Long:

1. WELL TAG NO. D 0031748
 DRILLING PERMIT NO. _____
 Water Right or Injection Well No. 63-31831

2. OWNER:

Name MC Ventures L.L.C.
 Address P.O. Box 1604
 City Idaho Falls State Id. Zip 83403

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 3 North ☒ or South ☐
 Rge. 3 East ☐ or West ☒
 Sec. 3 1/4 NE 1/4 NE 1/4
 Gov't Lot _____
 County Canyon

Lat: _____ Long: _____
 Address of Well Site U-Street & Montana City Caldwell

Lt. _____ Blk. _____ Sub. Name Clock Tower
Subdivision

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 Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>22'</u>	<u>1200#</u>	<u>over bore hole</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 36'

Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8"</u>	<u>+3</u>	<u>30'</u>	<u>.032</u>	<u>steel</u>	☒	☐	☐	☐

Length of Headpipe 5' Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation Full Back

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>27'</u>	<u>32'</u>	<u>6"</u>	<u>Head Pipe Filter</u>			☐	☐
<u>32'</u>	<u>53'</u>	<u>.035</u>	<u>6"</u>	<u>SS</u>		☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>N/A</u>				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

2' ft. below ground Artesian pressure _____ lb.
 Depth flow encountered _____ ft. Describe access port or control devices: Sanitary Well Cap

12. WELL TESTS:

☐ Pump ☐ Baller ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>100+</u>		<u>53'</u>	<u>2.5 hrs.</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
<u>12"</u>	<u>0</u>	<u>4</u>	<u>Topsoil</u>			
<u>12"</u>	<u>4</u>	<u>22</u>	<u>Clay</u>			
<u>8"</u>	<u>22</u>	<u>53'</u>	<u>Gravel</u>		☒	

RECEIVED

JUL 26 2004

WATER RESOURCES
WESTERN REGION

Completed Depth 53' (Measurable)

Date: Started 7-7-04 Completed 7-8-04

14. DRILLER'S CERTIFICATION

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

Company Name Riverside Inc. Firm No. 333

Principal Driller _____ Date _____
 and
 Driller or Operator [Signature] Date 7-12-04
 Operator I _____ Date _____

Principal Driller and Rig Operator Required.
 Operator I must have signature of Driller/Operator II.

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03N03W3

Basin/Seque	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-31831	MARSHALL	GROUND WATER		X							X								
63-33997	CALDWELL	GROUND WATER											X						
63-10061	BARTAK, VI	GROUND WATER					X												
63-10209	TERASHIMI,	GROUND WATER											X						
63-10678	ESKEW, GA	GROUND WATER													X				
63-10679	ESKEW, E E	GROUND WATER															X		
63-12144	CITY OF CA	GROUND WATER																	
63-19677	HOLDEN, JI	GROUND WATER								X									
63-20542	BRESHEAR,	GROUND WATER										X							
63-20733	PARKER, B'	GROUND WATER										X							
63-20784	ESKEW, E E	GROUND WATER				X													
63-23381	DE WITT, E	GROUND WATER		X															
63-23962	WATERMA	GROUND WATER					X												
63-24125	WHITE, BE'	GROUND WATER																	
63-24126	WHITE, BE'	GROUND WATER														X			
63-2529A	PIONEER IF	GROUND WATER						X								X			
63-25755	MENDIOLA	GROUND WATER						X											
63-25964	MANGUM,	GROUND WATER					X												
63-26224	MARSHALL	GROUND WATER																	
63-26587	TORREY, RI	GROUND WATER											X					X	
63-26589	TORREY, JC	GROUND WATER											X						
63-27040	BARTAK, VI	GROUND WATER											X						
63-27384	BAKER, CHI	GROUND WATER					X												
63-27407	HART, LEO	GROUND WATER							X										
63-27597	CANTRELL,	GROUND WATER												X					
63-27613	CROOKHAN	GROUND WATER																	
63-27723	CHEN, JOH	GROUND WATER											X					X	
63-27907	GERBER, DI	GROUND WATER					X												
63-28022	PETERSEN	GROUND WATER							X										
63-28045	ENGEL, JEA	GROUND WATER							X										
63-28422	EGGERS, JC	GROUND WATER																	
63-28687	KUEHN, GE	GROUND WATER		X															
63-2935	COOPER FJ	GROUND WATER					X												
63-2936	KORN, JAM	GROUND WATER																X	
63-31009	RAMOS, NI	GROUND WATER					X												
63-31180	PICKREL, IV	GROUND WATER			X														
63-32495	GIBSON, CI	GROUND WATER										X							
63-32496	GIBSON, CI	GROUND WATER										X							
63-34069	CALDWELL	GROUND WATER																	
63-3412	ESKEW, EE	GROUND WATER				X													
63-3507	B D M PAR	GROUND WATER																	
63-8568	HOLDEN, JI	GROUND WATER									X								
63-9892	PALARANG	GROUND WATER					X												

 Separate well, same QQ

1

[illegible]

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Basin/Seque	Owner	Source	Use	SENE	SWNE	NWNE	SWNE	SENE	NENE	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-2935	COOPER FAMILY TR	GROUND V DOMESTIC																			30
63-2935	COOPER FAMILY TR	GROUND V DOMESTIC																			40
63-2936	KORN, JAMES J	GROUND V IRRIGATION																			
63-294	PIONEER IRRIGATIC	BOISE RIVE IRRIGATION																			
63-295	PIONEER IRRIGATIC	BOISE RIVE IRRIGATION																			
63-301A	UNITED STATES OF	BOISE RIVE IRRIGATION																			
63-302A	UNITED STATES OF	BOISE RIVE IRRIGATION																			
63-31009	RAMOS, NORA	GROUND V DOMESTIC																			
63-31180	PICKREL, IVAN L	GROUND V DOMESTIC																			
63-31283	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-31550	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-32024	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-32025	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-32026	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-32027	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-32033	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-32514	PIONEER IRRIGATIC	FIVE MILE IRRIGATION																			
63-32515	PIONEER IRRIGATIC	MASON CR IRRIGATION																			
63-32584	PIONEER IRRIGATIC	INDIAN CR IRRIGATION																			
63-33251	BOISE PROJECT BO	INDIAN CR IRRIGATION																			
63-33253	BOISE PROJECT BO	TENMILE C IRRIGATION																			
63-34069	CALDWELL SCHOOL	GROUND V IRRIGATION																			15.2
63-3412	ESKEW, EE; ESKEW	GROUND V IRRIGATION																			37
63-3441	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-3507	B D M PARTNERSHI	GROUND V IRRIGATION																			
63-371	PIONEER IRRIGATIC	BOISE RIVE IRRIGATION																			20
63-373A	UNITED STATES OF	BOISE RIVE IRRIGATION																			
63-5051	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-5053	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-5054	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-5055	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-5199	PIONEER IRRIGATIC	GROUND V IRRIGATION																			
63-5200	PIONEER IRRIGATIC	GROUND V IRRIGATION																			
63-5219	PIONEER IRRIGATIC	INDIAN CR IRRIGATION																			
63-5237	PIONEER IRRIGATIC	INDIAN CR IRRIGATION																			
63-5255	PIONEER IRRIGATIC	INDIAN CR IRRIGATION																			
63-7158	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-7900	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-7910	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-8008	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-8299	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-8568	HOLDEN, JOHN D; I	GROUND V IRRIGATION																			
63-8986	CITY OF CALDWELL	GROUND V MUNICIPAL																			37.8
63-8987	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-9109	PIONEER IRRIGATIC	GROUND V IRRIGATION																			
63-9358	CITY OF CALDWELL	GROUND V MUNICIPAL																			
63-9892	PALARANG SUBDIV	GROUND V DOMESTIC																			
63-9892	PALARANG SUBDIV	GROUND V IRRIGATION																			4.4

Municipal right or irrigation district

Same OQ, different owners and uses

* No surface water irrigation shares are available for this property.

* Municipal water is used for domestic use in the buildings, may not be used for irrigation.