

MEMORANDUM

Date: November 20, 2008
To: Water Right File 29-8171
From: Aaron Marshall
Re: Licensing Review

Permit 29-8171 was issued to the City of American Falls for municipal purposes with a maximum diversion rate of 3.21 cfs. The permit lapsed but was later reinstated with the priority date advanced to November 30, 2000.

The field examination was completed in 2001 by IDWR staff. The examiners identified the permitted point of diversion as Well #6. According to the attached water measurement report for year 2000, submitted to IDWR by Gerald E. Giesbrecht of the City of American Falls, the maximum rate of diversion from this well was 1,200 gallons per minute (2.67 cfs).

The City of American Falls holds five other water rights for municipal purposes; 29-2460 (4.68 cfs), 29-2510 (2.42 cfs), 29-4421 (0.68 cfs), 29-7821 (3.12 cfs), and 29-7822 (0.81 cfs). The total combined diversion rate authorized by these rights, from 9 points of diversion, is 11.71 cfs. Based on the attached memorandum from Bryce Contor to the City of American Falls, dated August 17, 2001, the points of diversion authorized by these rights in the combined municipal water supply system have a maximum diversion capacity of approximately 15.51 cfs. The IDWR Water Management Information System (WMIS) has data for all of the City's wells. Based on this data, the combined maximum diversion rate is 14.92 cfs. WMIS does not have data for the three wells completed in Section 13, T08S, R31E, which provide an additional flow of approximately 0.68 cfs.

A licensing amendment is necessary to authorize all 9 points of diversion in the City's municipal water supply system. This right should be limited to the maximum rate of diversion used from Well #6, 2.67 cfs. No combined rate limitations are warranted since the total diversion rate for all of the City's rights ($11.71 \text{ cfs} + 2.67 \text{ cfs} = 14.38 \text{ cfs}$) is less than the system capacity (15.51 cfs from Contor and at least 14.92 cfs from WMIS).

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
EASTERN REGION
IDAHO FALLS ID
208-525-7161 - PHONE
208-525-7177 - FAX

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WMP2 :12/00

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WATER MEASUREMENT ANNUAL REPORT**

Department of Water Resources

REPORTING YEAR _____**MEASURING DEVICE METHOD FOR TOTALIZING FLOW METERS**

ATTENTION: Year end data must be submitted to Idaho Department of Water Resources, 1301 N. Orchard St. Boise ID 83706, on or before **January 15** immediately following the reporting year.

A separate reporting form must be submitted for each diversion.

Name:	63	
Water Source:	CITY OF AMERICAN FALLS	JERRY GIESBRECHT
	Ground Water	
Water Right No:		
Legal Description:	07S 31E 21 NWSESW	
	E0007371	101624
Site Tag No:	WELL #6	8
Diversion Name:		

SECTION I Water Right Holder/Operator information

(If there are multiple water right holders on a common ditch or conveyance system, please designate the contact person below)

Current Water Right OwnerPlease check for address correction ☐

Name Giesbrecht Gerald E
 Last, First, MI

Phone _____

**CITY OF AMERICAN FALLS
550 NORTH OREGON TRAIL
AMERICAN FALLS, IDAHO 83211**

Phone 208-226-2569
 Fax 208-226-2548
 Mobile 208-221-3010
 e-mail pubworks@dcddi.net

Operator or Contact Person (if different from owner)

Name _____
 Last, First, MI

Phone _____

Address _____

Fax _____

City _____

Mobile _____

State & Zip _____

e-mail _____

Original Owner (if sold within last year)

Name _____
 Last, First, MI

Phone _____

Address _____

Fax _____

City _____

State & Zip _____

WMP2:12/00 Page 2

SECTION II Water Level Information (Optional data if available)**Depth to water.** Record the date, if the pump was on or off, or if other nearby pumps were on.

Static Water Level (pump off, water level stable): _____ ft Date _____

Dynamic Water Level (pump on): _____ ft Date _____

SECTION III Rate of flow and volume diverted (REQUIRED DATA)*Did not record*

Meter information:

Make McCrometer Model No. MW 500 Serial No. E96-00192Does the meter totalizer measure in acre-feet or gallons?

(circle one)

What is the multiplier? X 1000Does the meter rate of flow indicator show gpm or cfs?

(circle one)

What is the multiplier? _____

For meters without rate of flow indicators, check here ☐ and see page 4 for meter information and rate measurement methods.Reading of the meter totalizer, flow rate and discharge pressure should be taken and recorded once each month on or near the same date. Please provide the *actual totalizer reading* and not the total volume since last reading.

Date (date of reading)	Totalizer Reading	Flow Rate circle: cfs or <u>gpm</u>	Discharge Pressure
January (1)	3318		
February (1)	3318		
March (1)	3318		
April (1)	3318		
May (1)	3318		
June (1)	3318		
July (14)	3718	1200	80
August (1)	3718		
September (1)	3718		
October (26)	3824		
November (1)	3824		
December (31)	3824		

Does totalizer and flow readings above include meter multipliers? Yes X NoTotal Acre-feet 1.55 OR Total Gallons 506,000
(there are 325,850 gallons per acre foot)

Calculations or Comments: (If a flowmeter was installed, calibrated, or replaced during this reporting year, please note the date.)

WMP2:12/00 Page 3

SECTION IV

a. **For Irrigation Uses:** Crop information and method of irrigation for land being served by this diversion. List each type of crop, the number of acres grown, and the number of acres irrigated under each type of irrigation system.

<u>Crop</u>	<u>Acres</u>	<u>Method of irrigation</u>	
		<u>Sprinkler</u> (pressure)	<u>Surface</u> (gravity)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total acres	_____		

Number of acres irrigated cropland NOT irrigated this year: _____

Reason for idled acres _____

b. **For Non-Irrigation Uses (commercial, industrial, municipal):** describe type of use _____

SECTION V Modifications made

Describe in the space below any major modifications made to the diversion works or piping system which would affect system capacity or accuracy of the flow measurements during this reporting year. Attach drawings, sketches, photographs, notes or design information if needed.

SECTION VI Certification

I hereby certify that the above reported information is correct to the best of my knowledge and that I recognize that willful submittal of false or inaccurate data is a violation of law subject to the penalty provisions of Sections 42-311, 42-350 and 42-351, Idaho Code.

Derald C. Driesbrecht _____
Signature Title

7-9-01
Date

Each reporting form shall be accompanied by a report processing fee in the amount of **twenty-five dollars (\$25)** per diversion made payable to the Idaho Department of Water Resources (Section 42-701(6), Idaho Code). Report fee is not required if no water was diverted during reporting year.

For Department Use Only

Received by _____
Fee amount submitted \$25
Received by DWB
Reviewed by _____
Data entry by _____

Date 2/12/01 Time _____
Correct? yes X no _____
Receipt No. C 652238 (total \$125)
Date _____
Date _____

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
EASTERN REGION
IDAHO FALLS ID
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State of Idaho
Dept. of Water Resources
Water Measurement Annual Report
REPORTING YEAR 2003

RECEIVED

MAR 10 2004

Department of Water Resources
Eastern Region**MEASURING DEVICE METHOD FOR TOTALIZING FLOW METERS**

ATTENTION: Year end data must be submitted to Idaho Department of Water Resources, 900 N. Skyline Dr., Suite A, Idaho Falls, ID 83402, on or before January 15, 2004, immediately following reporting year.

A separate reporting form must be submitted for each diversion.

Name:	Jerry Giesbrecht c/o City of American Falls
Water Source	Ground Water
	E0007371
Site Tag No.	07S 31E 21 NWSESW
Legal Description	WELL #6
Diversion Name	

SECTION I Water Right Holder/Operator information

If there are multiple water right holders on a common ditch or conveyance system, please designate the contact person below.

Current Water Right Owner

Please check for address correction ☐

Name: Gerald Giesbrecht
Address: City of American Falls
550 North Oregon Trail
City: American Falls, Idaho 83211

State & Zip _____

Phone _____

Fax _____

Mobile _____

E-mail _____

Operator or Contact Person (if different from owner)

Name _____
Last First MI

Address _____

City _____

State & Zip _____

Phone _____

Fax _____

Mobile _____

E-mail _____

Original Owner (if sold within last year)

Name _____
Last First MI

Address _____

City _____

Phone _____

Fax _____

State & Zip _____

SECTION II Water Level Information (Optional data if available)**Depth to water.** Record the date, if the pump was on or off, or if other nearby pumps were on.

Static Water Level (pump off, water level stable): _____ ft. Date _____

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Section III Rate of flow and volume diverted (REQUIRED DATA)

Meter information:

Make McCrometer Model No. MW 500 Serial No. E 96-00192Does the meter totalizer measure in acre-feet or gallons? (circle one)What is the multiplier? 1000Does the meter rate of flow indicator show gpm or cfs? (circle one)

What is the multiplier? _____

For meters without rate of flow indicators, check here ☐ and see page 4 for meter information and rate measurement methods.

Reading of the meter totalizer, flow rate and discharge pressure should be taken and recorded once each month on or near the same date. Please provide the actual totalizer reading and not the total volume since last reading.

Date (date of reading)	Totalizer Reading	Flow Rate (circle: cfs or gpm)	Discharge Pressure
January (/)	5021		
February (/)	"		
March (/)	"		
April (/)	"		
May (/)	"		
June (/)	"		
July (/)	5024		
August (/)	46448	1150	72
September (/)	55390		
October (/)	"		
November (/)	"		
December (/)	"		

Do totalizer and flow readings above include meter multipliers? Yes ☒ No ☐

Total Acre-feet 154.58 OR Total Gallons 50,369,000
(there are 325,850 gallons per acre-foot)

Calculations or Comments (If flow meter was installed, calibrated, or replaced during this reporting year, Please note the date.)

SECTION IV

a. For Irrigation Uses: Crop information and method of irrigation for land being served by this diversion. List each type of crop, the number of acres grown, and the number of acres irrigated under each type of irrigation system.

Crop	Acres	Method of Irrigation	
		Sprinkler (pressure)	Surface (gravity)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total Acres	_____		

Number of acres irrigated cropland **NOT** irrigated this year: _____

Reason for idled acres _____

b. For Non-Irrigation Uses (commercial, industrial, municipal): describe type of use _____

SECTION V Modification made

Describe in the space below any major modifications made to the diversion works or piping system which would affect system capacity or accuracy of the flow measurements during this reporting year. Attach drawings, sketches, photographs, notes or design information if needed.

SECTION VI Certification

I hereby certify that the above reported information is correct to the best of my knowledge and that I recognize that willful submittal of false or inaccurate data is a violation of law subject to the penalty provisions of Sections 42-311, 42-350, and 42-351, Idaho Code.

Signature Ronald Duesbrecht Title Asst Date 3-1-04

Each reporting form shall be accompanied by a report processing fee in the amount of **twenty-five dollars (\$25) per diversion** made payable to the Idaho Dept. of Water Resources (Section 42-701(6), Idaho Code). Report fee is not required if no water was diverted during reporting year.

Received by _____
 Fee amount submitted _____
 Receipted by _____
 Reviewed by _____
 Data entry by _____

For Department Use Only

Date _____
 Correct? Yes _____ No _____
 Receipt No. _____
 Date _____
 Date _____

Time _____

MEMORANDUM

To: City of American Falls Files
Fr: Bryce Cantor
Date: 8/17/01

Re: Combined Q Limitation,
POD

EWMD "dand"
Abs" ID #63

The following relies on the East Uloter Measurement District files. Except for measurement of discharge at the 85 location, copies are not included in the AF files.

1) Transfer-imposed limitation = 13.03 gfs from all POD combined.

2) WMD shows the following:

— 8531E 13 SW 3 wells @ Spring 307.1 GPM = 0.68 gfs
— 7531E 29 SE #5 1526.7 GPM = 3.40 gfs
— 7531E 29 SE #1 239.1 GPM = 0.53 gfs
— 7531E 29 NWSWSE #4 not meas. - see theoretical below

Assume PCC $\approx$ PCC from well #1.

Well # PCC = 508.3 Kw# / acre ft

$$PCC = \frac{KW \times 5431}{GPM} \rightarrow GPM = \frac{KW \times 5431}{PCC}$$

Combined Q p2

8/17/01

Observed Kw on WMD records for #4 = not reported.

Assume NP ratio is $\approx$ Q ratio.

Well #1 = 40 hp well #4 = 125 hp

$$0.53 \text{ gfs} \times \frac{125}{40} \approx 1.66 \text{ gfs}$$

- 75 31E 21 NWSESW Well #6

no meas performed by WMD

assume proportional to well #1

$$0.53 \text{ gfs} \times \frac{150}{40} \approx 1.99 \text{ gfs}$$

Note that Well #5 has 3.4 gfs discharge

@ 125 hp, so #4 & #6 may be 3.4

and 4.1 gfs respectively.

~~Note also that City of American Forks letter indicates six sources of water; WMD records only show 5. Wells #2 & #3 seem to be missing from the series~~

- 75 31E 29 NWNWSE pump #3

Combined Q p 3

8/17/01

Pump 3 not measured. 125 hp.
by methods above Q ranges fr.
1.66 - 3.4 gfs.

Summary.

Springs	0.68 - 0.68
# 5	3.40 - 3.40
# 1	0.53 - 0.53
# 4	1.66 - 3.40
# 6	1.99 - 4.10
# 3	1.66 - 3.40
Total	<u>9.92 - 15.51</u>

3) Summation of Transfer-approved rates:

29-2460	4.68
27-2510	2.42
29-4421	2.00*
29-7821	3.12
29-7822	0.81
	<u>13.03</u>

* Evidence does not support this rate.

4) Additional Permits per AT Enterprise Query:

29-8171 3.21 gfs.

5) Conclusions

- a) 29-4421 should be recommended
@ the measured 0.68 g/s
- b) At this recommendation, the AT
recommendation will sum to
 $(13.03 - 2.00) + 0.68 = 11.71 \text{ g/s}$
- c) Adding point 29-8171 g/s brings total
to $11.71 + 3.21 = 14.92 \text{ g/s}$. This
is very close to the optimistic high-
end of actual Q.
- d) Because current recommendations will
be less than 13.03 g/s there is
no need for the combined Q
limitation. Any need for combined
limits associated w/ 29-8171 can
be imposed by Allocations Bureau
at time of licensing.

~~Deane G. Carter 8/17/01~~

Combined Q p 5 8/17/01

6) PDD

There are 3 wells in the old spring at the 8 s. location. WMD records indicate 5 wells in the city. The transfer seems to indicate 6 wells plus the spring PDD.

Note one
purpose of xfer
was to add PDD;
this appears to be
the section 32
PD located
on SDE by
PLS.
BAC 8/17/01

Likely the difference is "well #2" which is missing from the WMD list and attached map (from WMD files, apparently, supplied by City of American Falls. Note numbering discrepancy; two #5 and no #4. This map seems to correspond to what I remember from field work w/ Lewis Rouns of EWMD in 1998).

Conclusion: Recommend 3 PDD @
spring, locate visually by GIS. Recommend
5 PDD shown on attached map per
visual GIS. Recommend "left over"
PDD from xfer by GIS "Make shape
from PLS" routine.

Dwight A. Cantor 8/17/01

From East Water Measurement
District Records

