Form WMP4 4/99

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**STATE OF IDAHO**
**DEPARTMENT OF WATER RESOURCES**

# *THIS IS YOUR* **1999** *WATER MEASUREMENT ANNUAL REPORT*

**For the Water Measurement Program -**
**MEASURING DEVICE METHOD FOR TOTALIZING FLOW METERS**
**NON-IRRIGATION WELLS**

**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, 2000.**

**NOTE: A separate reporting form must be submitted for each diversion.**

**This report form may be used for the following diversion:**

| | | |
|---|---|---|
| *Name:* | CITY OF RIGBY | |
| *Water Right Nos:* | A25-04011 X25-10496 | |
| *Legal Description:* | 04N 39E 18 NESWNW 3 | |
| | E0007614 POD# 101640 | ¼ |
| *Site Tag No:* | WELL #3 | B |
| *Diversion Name:* | | |

add to name block
Primary Well

**SECTION I Water Right Holder/Operator information**

Name and Address of Water Right Holder

Please check for address correction. ☐

*Current Owner*
Name City of Rigby (Last, First, MI)
Phone 208-745-8111 ext 13
Address 158 W. Fremont
Fax 208-745-7111
City RIGBY
State & Zip Id. 83442

*Original Owner (if sold within last year)*
Name (Last, First, MI)
Phone
Address
Fax
City
State & Zip

*Operator or Contact Person*
Name Nelson Douglas E (Last, First, MI)
Phone 208-745-8111
Address 158 W. Fremont
Fax 208-745-7111
City RIGBY
State & Zip Id, 83442

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3 March 2004

AJ5809NP
No. A25-04011

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM PROFILE REPORT

DATE: 06/08/98
PAGE: 2

| OWNER CODE | NAME & ADDRESS | PRIORITY DATE | WATER USE | USE PERIOD FROM | USE PERIOD TO | DIVERSION RATE | DIVERSION VOLUME |
|---|---|---|---|---|---|---|---|
| C | CITY OF RIGBY<br>158 W FREMONT<br>RIGBY ID 83442<br>(208) 745-8111 | 06/01/1961 | MUNICIPAL | 01-01 | 12-31 | 2.45 CFS | |
| | | | | TOTAL DIVERSION: | | 2.45 CFS | |

Water Source: GROUNDWATER  Tributary to:  Stage: STATUTORY CLAIM

Point(s) of Diversion: T04N R39E S18 Lot03(NESWNW) #3  JEFFERSON County

POU County:

Non-Irrigation Uses: M/700 HOMES 75 BUSINESSES. CITY LIMITS OF RIGBY.

Other Rights: 25-04009, 04010, 10496

Remarks: GEN P/U WITHIN CITY LIMITS OF RIGBY WELL #3.

Dates: Exam Made Date:  Verified Date: 05/20/1985  Objection Filed Date:

Misc: Water District Number:  Field Inspection Flag:
Presumption Flag:

lit: 10/12/88 VERNER 03/29/95 POST-STD

ple 125HP turbine to 1 mil gal tank, 3 boosters
2'
et
25' SCADA system monitors all wells including totals for #2 & #1

25+13 meter for #3 is pressure transducer in booster discharge manifold

7 Consolidated electric transducer, Schlumberger recorder

17B
25'W — E0007614 air vent on wellhead pump
50

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004

## SECTION II Well Information

**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): 220 ft Date ?

N

Deep well 720 feet

Water Level Not input not enough in So. Dakota 3/9/06

## SECTION III Rate of flow and volume diverted

Meter information:

Make Consolidated Model No. _____ Serial No. _____

Does the meter totalizer measure in acre-feet or gallons? (circle one) What is the multiplier? 10,000

Does the meter rate of flow indicator show gpm or cfs? (circle one) What is the multiplier? 1

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

*(meter information on page 4)*

**Note: Reading of the meter totalizer, flow rate and discharge pressure should be taken and recorded once each month on or near the same day.**

| Date (date of reading) | Totalizer Reading | Flow Rate circle: cfs or gpm | Discharge Pressure |
|---|---|---|---|
| 1998 End of Year | 9727 00000 | 00000 | 70 |
| January (29) | 10026 | 298 | 70 |
| February (25) | 10317 | 291 | 70 |
| March (31) | 10662 | 346 | 70 |
| April (29) | 10995 | 333 | 70 |
| May (30) | 11483 | 488 | 70 |
| June (30) | 12047 | 664 | 70 |
| July (30) | 12768 | 721 | 70 |
| August (31) | 13453 | 685 | 70 |
| September (30) | 14093 | 640 | 70 |
| October (29) | 14604 | 511 | 70 |
| November (30) | 14966 | 362 | 70 |
| December (30) | 15290 00000 | 324 | 70 |
| End of Year (Dec 31) | 15305 00000 | ~~500000~~ | 70 |

MR

Does totalizer reading above include meter multiplier? _____ Yes ✓ No

**Total Acre-feet** 171.2 ✓ **OR Total Gallons** 5578 00000

(there are 325,850 gallons per acre feet)

Source: IDWR Water Mean Prop Well #3

Date: March 04

| OWNER CODE | NAME & ADDRESS | PRIORITY DATE | WATER USE | USE PERIOD FROM | USE PERIOD TO | DIVERSION RATE | DIVERSION VOLUME |
|---|---|---|---|---|---|---|---|
| C | CITY OF RIGBY<br>158 W FREMONT<br>RIGBY ID 83442<br>(208) 745-8111 | 06/01/1961 | MUNICIPAL | 01-01 | 12-31 | 2.45 CFS | |
| | | | | | TOTAL DIVERSION: | 2.45 CFS | |

Water Source: GROUNDWATER Tributary to: Stage: STATUTORY CLAIM

Point(s) of Diversion: T04N R39E S18 Lot03(NESWNW) #3 JEFFERSON County

POU County:

Non-Irrigation Uses: M/700 HOMES 75 BUSINESSES. CITY LIMITS OF RIGBY.

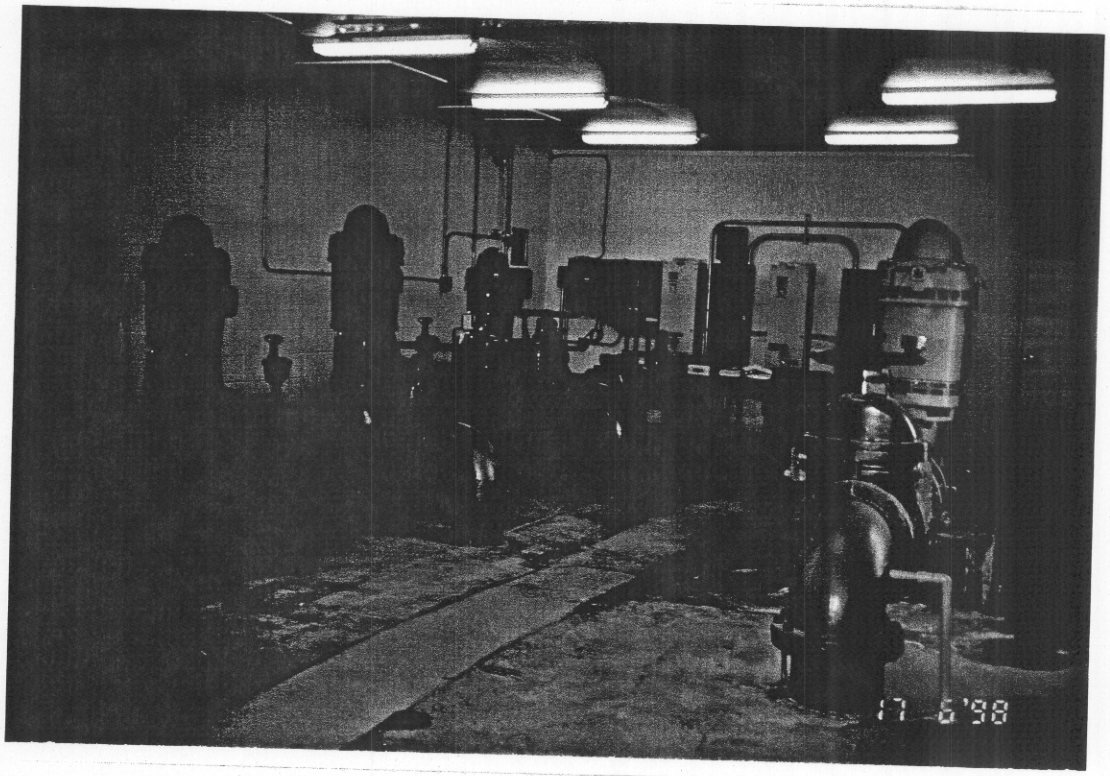
Other Rights: 25-04009, 04010, 10496

Remarks: GEN P/U WITHIN CITY LIMITS OF RIGBY WELL #3.

Dates: Exam Made Date: Verified Date: 05/20/1985 Objection Filed Date:

Misc: Water District Number: Field Inspection Flag:
Presumption Flag:

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Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3 March 2004

**SECTION III Modifications made in 1999**

Please 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 1999. Attach drawings, sketches, photographs, notes or design information if needed.

**Comments:**(If the flowmeter was installed, calibrated, or replaced during **1999**, please note the date.)

**SECTION IV 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: [signature] Title: P.W.D Date: 2-14-2000

Note: 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 1999.

---

For Office Use Only

Received by DWB Date 3/2/00 Time —

Fee amount submitted $25 Correct? yes ✓ no ____

Receipted by H. Kooch Receipt No. C# 48274

Reviewed by cjh Date 3/9/00

Data entry by DWB Date 3/9/00

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3

March 2004

## SECTION II INSTALLED METER INFORMATION

| METER AND MOUNTING PIPE INFORMATION | | | |
|---|---|---|---|
| Date of meter Installation | 6-97 | Multiplier - Flow rate | |
| Manufacturer | Consolidated Elec | Multiplier - Totalizer | |
| Meter Type | Diff. Pressure | Location (good, fair, poor) | |
| Model | | **Pipe information** | |
| Serial Number | | Pipe material | |
| Size (nominal) | | Outside Diameter | |
| Measure Flow Rate? | *(circle one)* (Yes) No | Wall Thickness | |
| Measurement Units | *(circle one)* CFS (GPM) Other*(specify)* | Inside Diameter | |
| Measure Cumulative Volume? | *(circle one)* (Yes) No | Dist. of straight pipe upstream from meter | |
| Volume Units | Acre-Feet Yes (No) Other*(specify)* gal | Dist. of Straight pipe downstream from meter | |

## SECTION III CERTIFICATION FOR CALIBRATION OF A WATER MEASUREMENT METER

See back page for instructions.

**Measurement No. 1 ($M_1$)** is the measured rate of flow from the permanently installed flow meter.

**Measurement No. 2 ($M_2$)** is the measured rate of flow from the measuring device being used to check the flow for the calibration. This method or device must be accurate to within ± 5% error. **Describe below** the method and equipment used to perform this measurement.

_____

_____

**Percent Difference = $(M_1 - M_2) \div M_2 \times 100 = \pm$ %** (Acceptable is within ± 10%) (equation 1)

**Calibration Multiplier = $M_2 \div M_1$** (equation 2)

Is flowmeter installed according to manufacturer's specifications? Yes / No / Unsure

Describe any apparent problems with installation or operation _____

_____

_____

Flowmeter accuracy prior to any adjustments:_____. Totalizer reading _____

Flowmeter accuracy after final adjustment:_____. Totalizer reading_____

Flowmeter calibration multiplier:_____

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3 March 2004

## SECTION II Well Information

**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): 220 ft Date ?

Deep well 720 feet

Water Level Not input not enough in So. Dmb 3/9/00

## SECTION III Rate of flow and volume diverted

Meter information:

Make Consolidated Model No. _____ Serial No. _____

Does the meter totalizer measure in acre-feet or gallons? (circle one) What is the multiplier? 10,000

Does the meter rate of flow indicator show gpm or cfs? (circle one) What is the multiplier? 1

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

*(meter information on page 4)*

**Note: Reading of the meter totalizer, flow rate and discharge pressure should be taken and recorded once each month on or near the same day.**

| Date (date of reading) | Totalizer Reading | Flow Rate circle: cfs or gpm | Discharge Pressure |
|---|---|---|---|
| 1998 End of Year | 9727 ~~00000~~ | ~~00000~~ | 70 |
| January (29) | 10026 | 298 | 70 |
| February (25) | 10317 | 291 | 70 |
| March (31) | 10662 | 346 | 70 |
| April (29) | 10995 | 333 | 70 |
| May (30) | 11483 | 488 | 70 |
| June (30) | 12047 | 664 | 70 |
| July (30) | 12768 | 721 | 70 |
| August (31) | 13453 | 685 | 70 |
| September (30) | 14093 | 640 | 70 |
| October (29) | 14604 | 511 | 70 |
| November (30) | 14966 | 362 | 70 |
| December (30) | 15290 ~~00000~~ | 324 | 70 |
| End of Year (Dec 31) | 15305 ~~00000~~ | ~~1,500000~~ | 70 |

MR

Does totalizer reading above include meter multiplier? _____ Yes ✓ No

**Total Acre-feet** 171.2 gh ✓ **OR Total Gallons** 5578 ~~00000~~

(there are 325,850 gallons per acre feet)

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3 March 2004

WMP2 5-7-1997

# STATE OF IDAHO
# DEPARTMENT OF WATER RESOURCES
**Water Measurement Program**

## *1997 WATER MEASURING DEVICE CERTIFICATION*

**Date of Testing** [redacted] Inv 6-17-98 gfw

**Person performing test** [redacted]

*Name:* City of Rigby
*Water Right No:* A25-04011, X25-10496
*Legal Description:* T4N R39E Sec. 18 NE ¼ SW ¼ NW ¼ L3
*Site Tag No:* E0007614
*Diversion Name:* Well #3

PRIMARY WELL

***Current Owner***
Name _____ Phone _____
Last, First, MI
Address _____ City _____ State _____ Zip _____

***Operator*** *(if leased or operated by someone else)*
Name _____ Phone _____
Last, First, MI

## SECTION I WELL SITE IDENTIFICATION

Global Positioning System Data:

***Data Collection Filename*** F0617178 Offset 25' W

***IDWR Site Tag Identification No.*** E0007614

Site Tag location description: airvent on main discharge

***PLS/USGS*** Locator _____

**For Department/District Use Only**

Received by _____ Date _____

Reviewed by _____ Date _____

Data Entry by _____ Date _____

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004

**SECTION III Modifications made in 1999**

Please 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 1999. Attach drawings, sketches, photographs, notes or design information if needed.

**Comments:**(If the flowmeter was installed, calibrated, or replaced during **1999**, please note the date.)

**SECTION IV 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 _____ Title P.W.D Date 2-14-2000

Note: 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 1999.

---

For Office Use Only

Received by DWB Date 3/2/00 Time —

Fee amount submitted $25 Correct? yes ✓ no _____

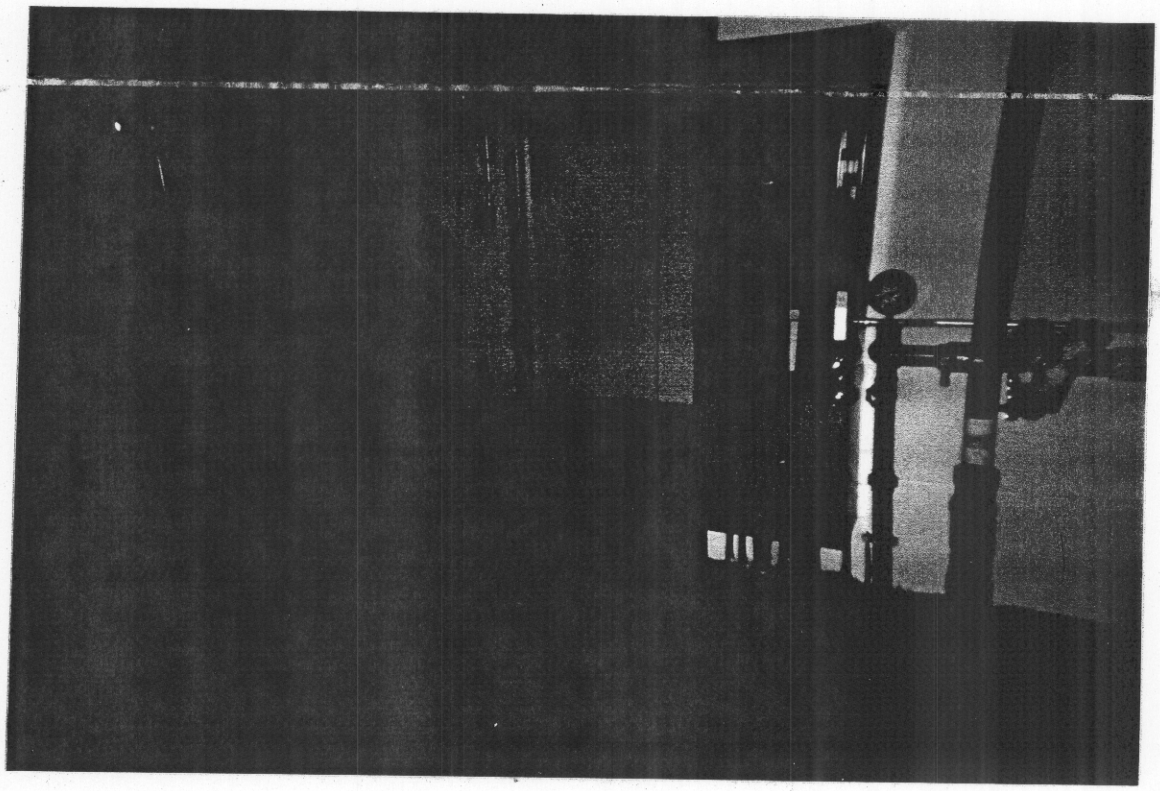
Receipted by H. Kooch Receipt No. CC48274

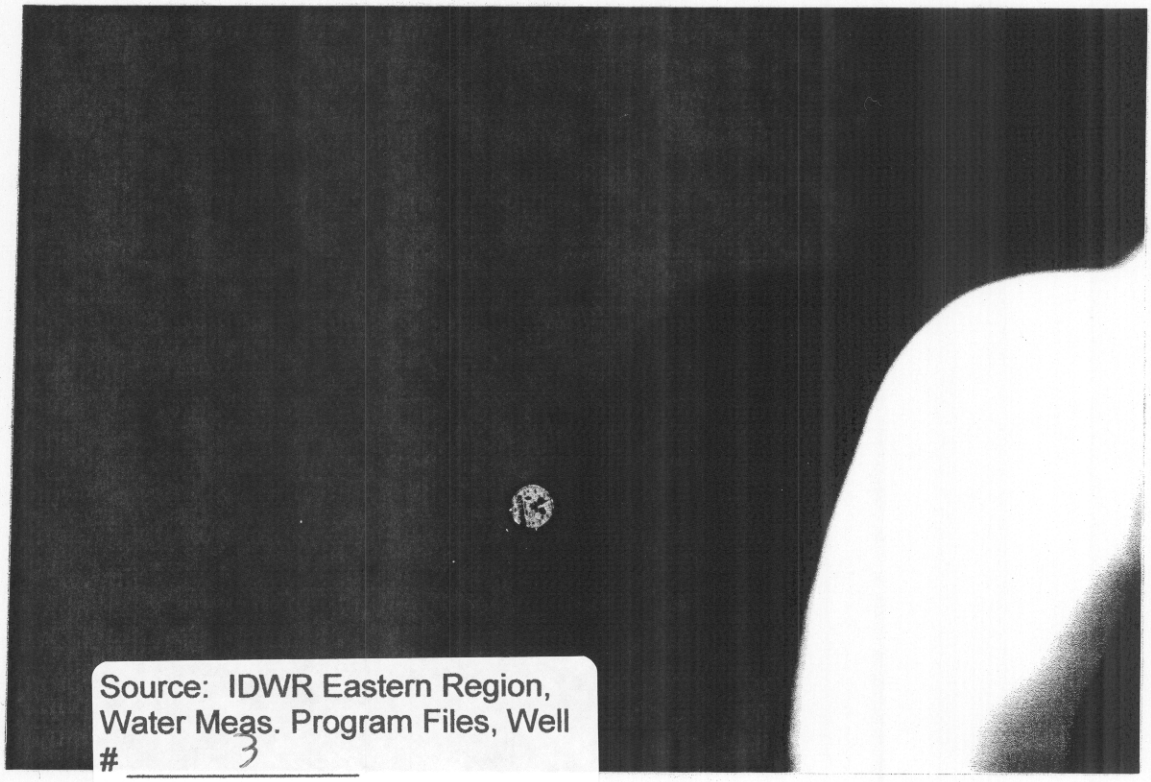
Reviewed by cjh Date 3/9/00

Data entry by DWB Date 3/9/00

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004

City of Rigby
Well #3





Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004

Form WMP4 4/98

RECEIVED
MAR 0 1 1999
Department of Water Resources

**STATE OF IDAHO**
**DEPARTMENT OF WATER RESOURCES**

# *THIS IS YOUR 1998 WATER MEASUREMENT ANNUAL REPORT*

3-10-99

**For the Water Measurement Program -**
**MEASURING DEVICE METHOD FOR TOTALIZING FLOW METERS**
**NON-IRRIGATION WELLS**

**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, 1999.**

**NOTE: A separate reporting form must be submitted for each diversion.**

**This report form may be used for the following diversion:**

| | | |
|---|---|---|
| *Name:* | | |
| *Water Right Nos:* | CITY OF RIGBY | |
| | A25-04011 X25-10496 | |
| *Legal Description:* | T 04N 39E 18 NESWNW 3 | |
| *Site Tag No:* | E0007614 | B |
| *Diversion Name:* | WELL #3 | |

**SECTION I Water Right Holder/Operator information**

Name and Address of Water Right Holder

Please check for address correction. ☐

*Current Owner*
Name City of Rigby (Last, First, MI)
Phone 208-745-8111
Address 158 W. Fremont
Fax 208-745-7111
City Rigby
State & Zip IDAHO 83442

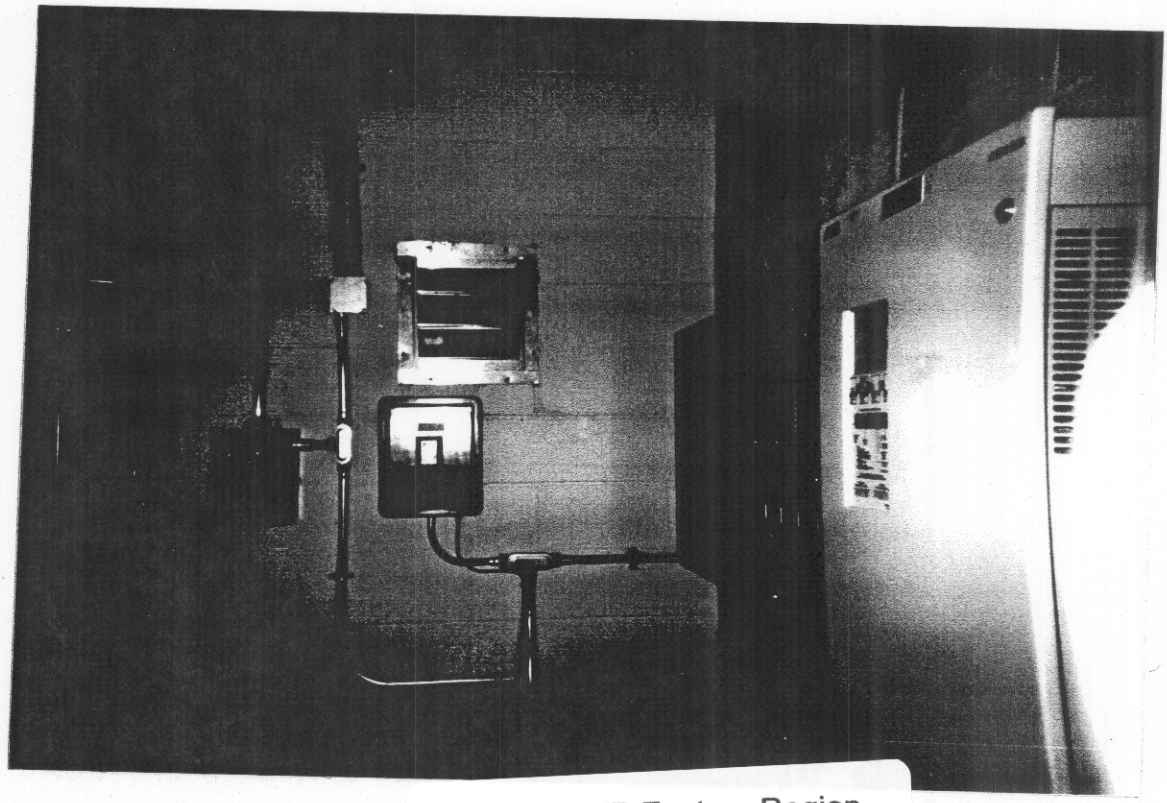
*Original Owner (if sold within last year)*
Name (Last, First, MI)
Phone
Address
Fax
City
State & Zip

*Operator or Contact Person*
Name (Last, First, MI)
Phone
Address
Fax
City
State & Zip

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004

City of Rig
WELL # 3





Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004

## SECTION II Well Information

**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

Meter information:
Make _____ Model No. _____ Serial No. _____

Does the meter totalizer measure in acre-feet or gallons? (circle one) What is the multiplier? 1

Does the meter rate of flow indicator show gpm or cfs? (circle one) What is the multiplier? 1

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

*(meter information on page 4)*

**Note: Reading of the meter totalizer, flow rate and discharge pressure should be taken and recorded once each month on or near the same day.**

| Date (enter date of reading) | Totalizer reading | Flow rate cfs or gpm | Discharge pressure |
|---|---|---|---|
| January (__) | Not Available | | 70 psi |
| February (__) | | | |
| March (__) | | | |
| April (__) | | | |
| May (__) | | | |
| June (__) | | | |
| July (__) | | | |
| August (22) | 786,000,000 | | |
| September (1) | 816,000,000 | 231 | |
| October (1) | 870,400,000 | 176 | |
| November (1) | 913,300,000 | 86 | |
| December (1) | 942,500,000 | 66 | 70 psi |
| 12-21 | 947,300,000? | 61 | |

PM

Does totalizer reading above include meter multiplier? X Yes _____ No

**Total Acre-feet** 494.0 **OR Total Gallons** ~~15,952,000 (partial)~~ 161 x10^6 gals.
(there are 325,850 gallons per acre feet)

OK

Comment:
Did not begin readings until August 98

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004

## Water Level Data

Does the well have **access** to measure water levels? Yes / No Not Applicable

Static Water Level _____ ft  Pumping Water Level _____ ft (at condition #_____)

Date _____  Date _____

**FLOWMETER ACCURACY CALIBRATION TABLE**

| Owners meter (totalizer reading) | Time | Total Gallons | Ave. Flow Rate - GPM ($M_1$) | Standard total gallons | Average flow rate ($M_2$) | Percent diff. (±) | Comments and adjustments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Notes, Comments or Calculations: Flow Meters installed/upgraded within 4 years.

**Sketch and or photograph of installation:**

Attached

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature Lyle J Thompson (person performing measurements)  Date 2-24-99

Thompson Engineering Inc

**SECTION III Modifications made in 1998**

Please 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 1998. Attach drawings, sketches, photographs, notes or design information if needed.

NONE

**Comments:** (If the flowmeter was installed, calibrated, or replaced during **1998**, please note the date.)

N/A

**SECTION IV 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.

Tyler D Thompson — Engr. — 2-26-99

Signature — Title — Date

Thompson Engineering LLC

Note: 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 1998.

---

For Office Use Only

Received by _____ Date _____ Time _____

Fee amount submitted 25.00 Correct? yes _____ no _____

Receipted by B. Jeffries Receipt No. C044740

Data entry by DmR 11/4/99 Date 3-3-99

Reviewed 4-5-99 cjh

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004

## SECTION II INSTALLED METER INFORMATION

| METER AND MOUNTING PIPE INFORMATION | | | |
|---|---|---|---|
| Date of meter Installation | 6-97 | Multiplier - Flow rate | |
| Manufacturer | Consolidated Elec | Multiplier - Totalizer | |
| Meter Type | Diff. Pressure | Location (good / fair / poor) | |
| Model UAL | RJ1201HDL | **Pipe information** | |
| Serial Number | 95SK144328 | Pipe material | Ductile Iron |
| Size (nominal) | 12" | Outside Diameter | 13" |
| Measure Flow Rate? | (circle one) Yes No | Wall Thickness | 1/2" + |
| Measurement Units | (circle one) CFS GPM Other(specify)_____ | Inside Diameter | 12" |
| Measure Cumulative Volume? | (circle one) Yes No | Dist. of straight pipe upstream from meter | 11' |
| Volume Units | Acre-Feet Yes No Other(specify) gal | Dist. of Straight pipe downstream from meter | 8' |

OSE B. 01-15-97 BJCHS

## SECTION III CERTIFICATION FOR CALIBRATION OF A WATER MEASUREMENT METER

See back page for instructions.

**Measurement No. 1 ($M_1$)** is the measured rate of flow from the permanently installed flow meter.

**Measurement No. 2 ($M_2$)** is the measured rate of flow from the measuring device being used to check the flow for the calibration. This method or device must be accurate to within ± 5% error. **Describe below** the method and equipment used to perform this measurement.

N/A

**Percent Difference = $(M_1 - M_2) \div M_2 \times 100 = \pm$ %** (Acceptable is within ± 10%) (equation 1)

**Calibration Multiplier = $M_2 \div M_1$** (equation 2)

Is flowmeter installed according to manufacturer's specifications? Yes / No / Unsure

Describe any apparent problems with installation or operation _____

Flowmeter accuracy prior to any adjustments:_____. Totalizer reading _____

Flowmeter accuracy after final adjustment:_____. Totalizer reading_____

Flowmeter calibration multiplier:_____

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3 March 2004

WMP2 5-7-1997

# STATE OF IDAHO
# DEPARTMENT OF WATER RESOURCES
**Water Measurement Program**

RECEIVED
MAR 0 1 1999
Department of Water Resources

## *1997 WATER MEASURING DEVICE CERTIFICATION*

**Date of Testing** [redacted] Inv 6-17-98 glh

**Person performing test** [redacted]

| | |
|---|---|
| *Name:* | City of Rigby |
| *Water Right No:* | A25-04011, X25-10496 |
| *Legal Description:* | T 4N R 39E Sec 18 NE ¼ SW ¼ NW ¼ L3 |
| *Site Tag No:* | E0007614 |
| *Diversion Name:* | Well #3 |

PRIMARY WELL

***Current Owner***
Name City of Rigby Phone 208-745-8111
Last, First, MI
Address 158 West Henry City Rigby State Id Zip 83442

***Operator*** *(if leased or operated by someone else)*
Name _____ Phone _____
Last, First, MI

## SECTION I WELL SITE IDENTIFICATION

Global Positioning System Data:

***Data Collection Filename*** F0617178 Offset 25' W

***IDWR Site Tag Identification No.*** E0007614

Site Tag location description: current on main discharge

***PLS/USGS*** Locator _____

**For Department/District Use Only**

Received by _____ Date _____

Reviewed by _____ Date _____

Data Entry by _____ Date _____

Source: IDWR Eastern Region, Water Meas. Program Files, Well # 3
March 2004