

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 27-7577

Exam Date: 8/15/2007

1. Current Owner: CITY OF BLACKFOOT
157 N BROADWAY
BLACKFOOT ID 83221
(208)785-8688
2. Accompanied by: Richard S. Mangum
Phone No: Same as Owner
Address: Same as Owner
Relationship to Permit Holder: Employee in City Works

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

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

GROUND WATER SW1/4NW1/4SE1/4 Sec. 4, Twp 03S, Rge 35E, B.M.
BINGHAM County

Method of Determination: Use of aerial photography and photographs provided from the field exam.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03S	35E	5															34.0	28.0	62.0
03S	35E	7													32.0	9.0	9.0	10.0	60.0
03S	35E	8	22.0	34.0	20.0				30.0	36.0	27.0	38.0		5.0		5.0	25.0		242.0

Total Acres: 364

Method of Determination:

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 1:24,000 or greater.
☐ Aerial Photo Attached (required for irrigation of 10+ acres).
☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
701898	GE	150	GLJ723177		

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Polysonic		Fuji				

2. Measurements:

0.39 thickness, 13.2" diameter thick diameter carbonsteel 4510 GPM observed or 10.04 cfs
 Limited to 7.28 cfs by permit

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

4500 GPM ÷ 448.83 = 10.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 365 \text{ acres} \times 3.5 \text{ af/acre} = 1274 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 7.28 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 3090 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1274 \text{ afa}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	7.280 CFS	
<u>Totals:</u>		7.280 CFS	1,274.00 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Steve Mueller Date 8-15-200

Reviewer Nate Arave Nate Arave Date 4-25-2007 April 25, 2007

Permit No. 27-7577

1. Owner: City of Blackfoot Phone No. 785-9608

Current Address: 157 N Broadway, Blackfoot, ID 83221

2. Accompanied by: Richard S. Mangum EXAM DATE: 8-15-00

Address: _____ Phone No. (208) 785-8608

Relationship to Permit Holder: Employee in city water works

3. Source: Ground water tributary to

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

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

1. Point(s) of Diversion:

66 FILE 607

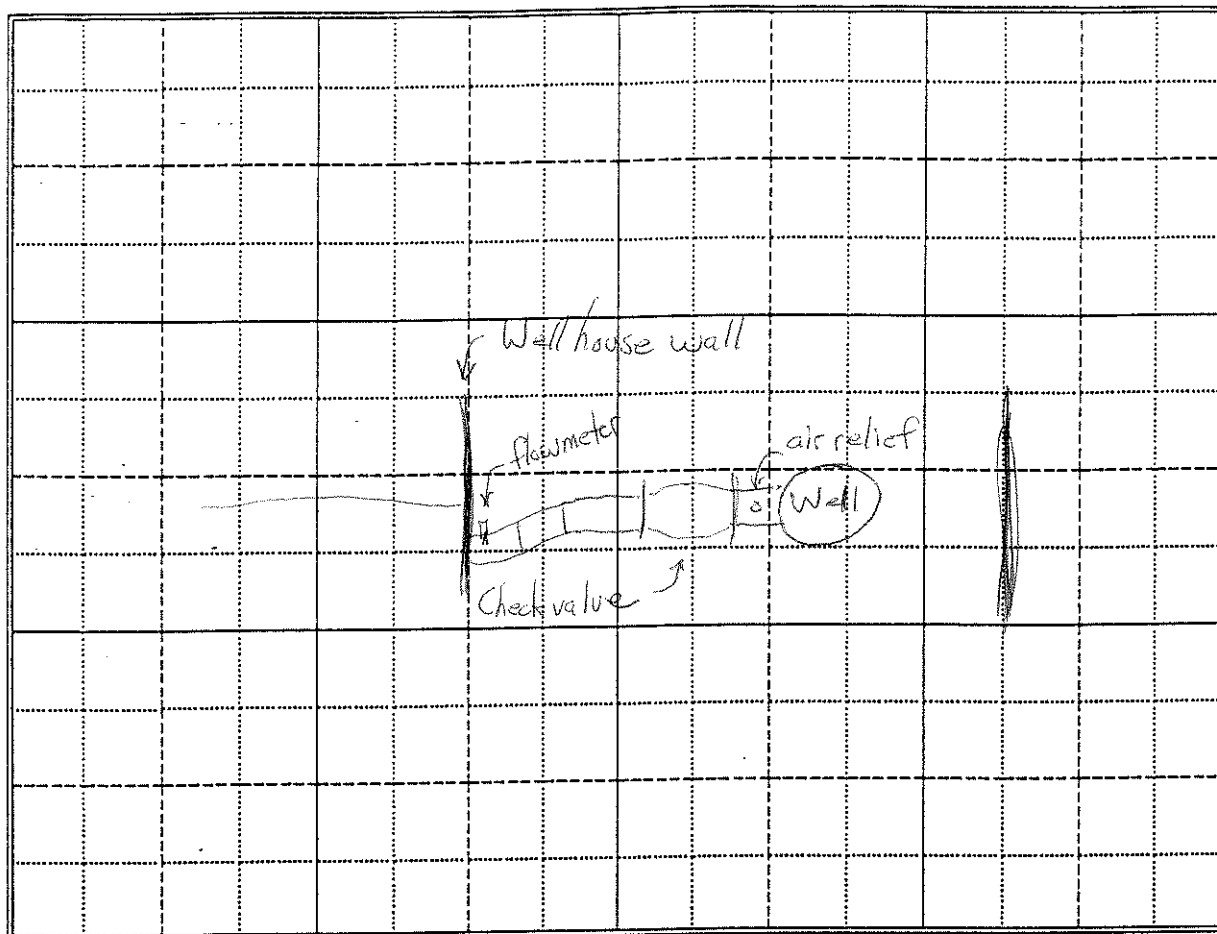
GPS R08/520 A

2. Place(s) of Use:

Indicate Method of Determination

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



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
	GE	150	GLJ723177	?	

*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
Polysonic		Fuji				

2. Measurements:

390 / 3.2" 10.04 cfs = 4510 gpm
 Thick Dia carbon steel
 4500 GPM observed

E. NARRATIVE/REMARKS COMMENTS

Well open discharges into a ditch leading to sections 5,7,8. The city of Blackfoot provides water to this ditch in exchange for being allowed to eliminate the ditch from running through town.

The city workers helped dig up the mainline so the polysonic could be used to get a flow measurement. The file name is 27-7577. 4500 gpm was observed on the display. POP was obtained using GPS unit

Richard Mangum has the aerial photographs for the POV. He needed to meet with the ditch company to identify the entire POV. He will mail them to us when finished.

Mainline has a concrete liner.

Have conditions of permit approval been met? ☐ yes ☐ no

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 364 \times 3.5 = 1274 \text{ afa}$$

$$V_{D.R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 7.28 \times 214 \times 1.9835 = 3090 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R} \text{ and } V_{D.R} = 1274 \text{ afa}$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			_____	_____

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Steve Mueller Date 8-15-00

Reviewer Nate Arave Date 4-25-07

SEAL



POINT OF
DIVERSION

MEASUREMENT SITE

27-07577

LOG NAME: **27-07577**

START: 08-15-2000 14:00

END: 08-15-2000 14:10

INTERVAL: 00:01:00

08-15-2000 14:00:00

+1.222E+1 ft/s

+4.498E+3 gal/m

+1.002E+1 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:01:00

+1.220E+1 ft/s

+4.491E+3 gal/m

+1.000E+1 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:02:00

+1.221E+1 ft/s

+4.493E+3 gal/m

+1.001E+1 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:03:00

+1.220E+1 ft/s

+4.490E+3 gal/m

+1.000E+1 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:04:00

+1.224E+1 ft/s

+4.507E+3 gal/m

+1.004E+1 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:05:00

+1.218E+1 ft/s

+4.482E+3 gal/m

+9.987E+0 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:06:00

+1.217E+1 ft/s

+4.479E+3 gal/m

+9.980E+0 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:07:00

+1.225E+1 ft/s

+4.510E+3 gal/m

+1.004E+1 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:08:00

+1.214E+1 ft/s

+4.468E+3 gal/m

+9.956E+0 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:09:00

+1.213E+1 ft/s

+4.465E+3 gal/m

+9.949E+0 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

08-15-2000 14:10:00

+1.220E+1 ft/s

+4.491E+3 gal/m

+1.000E+1 ft3/s

+TOTAL 0000000 gal

-TOTAL 0000000 gal

NORMAL

27-07577

Comment Report

27-7577

1. narave 4/25/2007 POD

Comment: Updated shape

2. narave 4/25/2007 POU

Comment: Updated Shape

3. smueller 8/15/2000 Field Report Narrative

Comment: Well open discharge inot a ditch leading to sections 5, 7, and 8. The city of Blackfoot provides wate to this ditch in exchange for being allowed to eliminate the ditch from running through town.

The city workers helped dig up the mainline so the polysonic could be used to get a flow measurement. The file name is 27-7577. 4500 GPM was observed on the display, and POD was obtained using GPS unit, but this file was lost.

Richard Magnum hs athe aerial photography for the POU. He needed to meet with the ditch company to identify the entire POU. He will mail them to me whan finished. This and has been recieved.

Mainline has a concrete liner

4. narave 4/25/2007 POU overlap

Comment: The overlapping Places of use are:

27-10305

27-10416

27-22D

27-35D

1-47E

1-304

1-48

1-1J

1-298

1-7559

1-37F

27-11929

27-11940

27-37F

27-3C

27-11939

27-12B

27-4F

27-16A

27-37C

27-37C
27-12136
27-4154
27-4H
27-10344
27-10505
27-37F
27-12A
27-10847
27-11965
27-11997
27-10756
27-3G
27-10341
27-10296

5. DELLIS 6/14/2000 Proof of Beneficial Use Rcvd
Comment: Proof of Beneficial Use Rcvd

Type	WR #	Owner	Source	TRS	NENE	NWNW	SENE	NENW	NWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSSE	TESE	Total
App	1 7094	JAY O WADSWORTH,	SLAKE RIVER	03S3SE5															0
Claim	1 4014	JAY O WADSWORTH,	SLAKE RIVER	03S3SE5	X														93
Claim	1 10242	JAY O WADSWORTH,	SLAKE RIVER	03S3SE5		3			9	5	6	31	21	17	7	2			130
Claim	1 2A	THE UNITED CANAL CO,	SLAKE RIVER	03S3SE5					18	40	10	36	36	5	10	20			73
Claim	1 148	THE UNITED CANAL CO,	SLAKE RIVER	03S3SE5					18	40	10	5							73
Claim	1 266	THE UNITED CANAL CO,	SLAKE RIVER	03S3SE5					18	40	10	5							73
Claim	1 4061	THE UNITED CANAL CO,	SLAKE RIVER	03S3SE5					18	40	10		5						73
Claim	27 10305	ELIZA HINDERAGER, LARRY HINDERAGER,	GROUND WATER	03S3SE5												X			0
Claim	27 10305	ELIZA HINDERAGER, LARRY HINDERAGER,	GROUND WATER	03S3SE5												X			0
Claim	27 10416	LINDON A MICKELSEN, LOREEN A MICKELSEN,	GROUND WATER	03S3SE5												X			0
Claim	27 10416	LINDON A MICKELSEN, LOREEN A MICKELSEN,	GROUND WATER	03S3SE5												X			0
Claim	27 10416	LINDON A MICKELSEN, LOREEN A MICKELSEN,	GROUND WATER	03S3SE5												X			0
Rec	27 10416	LINDON A MICKELSEN, LOREEN A MICKELSEN,	GROUND WATER	03S3SE5												X			0
Rec	1 2A	THE UNITED CANAL CO,	SLAKE RIVER	03S3SE5				X	X	X		X							1
Claim	27 7046	LESLIE F WIXOM,	GROUND WATER	03S3SE5															1
Rec	1 10242	JAY O WADSWORTH,	SLAKE RIVER	03S3SE5					2.5	8.4	27	23	14	3.5	2.3				80.7
Rec	27 7046	LESLIE F WIXOM,	GROUND WATER	03S3SE5															1
Rec	1 1J	BLACKFOOT IRRIGATION CO,	SLAKE RIVER	03S3SE5	X											X	X	X	0
Rec	1 298	BLACKFOOT IRRIGATION CO,	SLAKE RIVER	03S3SE5	X											X	X	X	0
Rec	1 47E	CORBETT SLOUGH DITCH CO,	SLAKE RIVER	03S3SE5		X										X	X	X	0
Rec	1 48	CORBETT SLOUGH DITCH CO,	SLAKE RIVER	03S3SE5												X	X	X	0
Rec	1 304	CORBETT SLOUGH DITCH CO,	SLAKE RIVER	03S3SE5												X	X	X	0
Rec	1 148	THE UNITED CANAL CO,	SLAKE RIVER	03S3SE5					X	X		X							0
Rec	1 286	THE UNITED CANAL CO,	SLAKE RIVER	03S3SE5					X	X		X							0
Rec	1 4061	THE UNITED CANAL CO,	SLAKE RIVER	03S3SE5					X	X		X							0
Rec	1 4014	JAY O WADSWORTH,	SLAKE RIVER	03S3SE5					X	X		X							80.7
TClaim	1 48	CORBETT SLOUGH DITCH CO,	SLAKE RIVER	03S3SE5												X	X	X	0
TClaim	1 304	CORBETT SLOUGH DITCH CO,	SLAKE RIVER	03S3SE5												X	X	X	0
Right	27 7577	CITY OF BLACKFOOT,	GROUND WATER	03S3SE5												X	X	X	62

[illegible]