

Permit No: 27-11964

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

Page 1

JUN 24 2005

DEPARTMENT OF
WATER RESOURCES

A. GENERAL INFORMATION

Permit No: 27-11964

Exam Date: 5/24/2004

1. Current Owner: BLACKFOOT SCHOOL DISTRICT #55
270 E BRIDGE ST
BLACKFOOT ID 83221
(208)785-8800
2. Accompanied by: John Steffensen
Phone No: 785-8800 (Dean Stump Cell # 208-317-5534)
Address: 270 E Bridge St, Blackfoot, ID 83221
Relationship to Permit Holder: Maintenance

3. SOURCE TRIBUTARY
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 SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NE1/4SE1/4 Sec. 17, Twp 02S, Rge 36E, B.M.
BINGHAM County

Method of Determination:

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	
02S	36E	17													4.9				4.9

Total Acres: 4.9

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>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

*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>
Pitot tube	_____	_____	_____	_____	_____	_____
Pressure gage	_____	_____	_____	_____	0-60psi	_____

2. Measurements: Average Pressure = 20 psi Line #1 6- 5/32 inch sprinkler nozzles, Line #2 4- 13/64 inch and 4- 5/32 inch nozzles, Line #3 3- 11/64 inch and 3- 13/64 inch nozzles.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

10- 5/32 inch nozzles @ 20 psi = $(10)(3.26 \text{ gpm}) = 32.6 \text{ gpm}$
 7- 13/64 inch nozzles @ 20 psi = $(7)(5.51 \text{ gpm}) = 38.57 \text{ gpm}$
 3- 11/64 inch nozzles @ 20 psi = $(3)(3.92 \text{ gpm}) = 11.76 \text{ gpm}$

Total Q = $(32.6 + 38.57 + 11.76) = 82.93 \text{ gpm}/448.8 \text{ cfs/gpm} = 0.18 \text{ cfs}$

Q limited to permitted amount = 0.15 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (4.9) \times (4.0) = 19.6 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.15)(214)(1.9835) = 63.7 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 19.6 \text{ afa}$$

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	0.150 CFS	19.6 AF
<u>Totals:</u>		0.150 CFS	19.6 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

Date

Reviewer

Date

*change Annual Volume
to match 4.0 afa
condition*

5/26/07

[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).

☒ N/A 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
	UNKNOWN	?			

*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
Pitot tube Pressure Gage					0-60	

2. **Measurements:** Avg Pressure all three handlines = 20psi

Line #1 6 - 5/32" nozzles @ 20psi

Line #3 3 - 1/64" & 3 - 13/64" nozzles

Line #2 4 - 13/64" nozzles & 4 - 5/32" nozzles @ 20psi

@ 20 PSI

27-11964

MEMORANDUM

Date: June 20, 2005
To: Water Right File 27-11964
From: kwilson
Re: Field Report Narrative

The place of use is for the Wapello School. The place of use and the point of diversion are located within the NESE Sec 17, T02S, R36E, which is also the SW corner of the intersection of 350 North and 200 East. The field examiner was accompanied by John Steffensen, Maintenance.

The irrigation system consists of a submersible pump and motor (hp unknown) to pressure tanks to mainline to hand lines with sprinklers. At the time of the examination there were three hand lines operating. The pressure at each end of all three lines was 20 psi. Line one had six (6) sprinklers with 5/32 inch nozzles. Line two had eight (8) sprinklers, four (4) with 5/32 inch and four (4) with 13/64 inch nozzles. Line three had six (6) sprinklers, three (3) with 11/64 inch and three (3) with 13/64 inch nozzles.

This examiner noticed that the permit was conditioned to 4.0 afa per acre at the field headgate for irrigation; however, the annual volume listed on the permit was calculated using 3.5 afa. Recommend changing the annual volume calculated using 4.0 afa.

E. NARRATIVE/REMARKS/COMMENTS

Three hand lines with splices

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

27-11964

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

$$\begin{aligned}
 10 \frac{5}{32} \text{ nozzle @ } 20 \text{ psi} &= 10 (3.26 \text{ gpm}) = 32.6 \text{ gpm} \\
 7 \frac{13}{64} \text{ nozzle @ } 20 \text{ psi} &= 7 (5.51 \text{ gpm}) = 38.57 \text{ gpm} \\
 3 \frac{1}{64} \text{ nozzle @ } 20 \text{ psi} &= 3 (3.92 \text{ gpm}) = 11.76 \text{ gpm} \\
 &= 82.93 \text{ gpm} = 0.18 \text{ cfs}
 \end{aligned}$$

$Q_{LIMITED}$ to 0.03 cfs/acre ; Permitted Amount $Q = 0.15 \text{ cfs}$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$\begin{aligned}
 V_{I.R.} &= (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.9 (4.0) 19.6 \text{ cfs} \\
 V_{D.R.} &= [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.15 (214) (1.9835) = 63.7 \text{ cfs} \\
 V &= \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 19.6 \text{ cfs}
 \end{aligned}$$

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		
IRRIGATION	4/1	10/31	0.15 cfs	19.6 cfs
Totals:			0.15 cfs	19.6 cfs

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

Change annual volume to match 4.0 cfs condition

I. AUTHENTICATION

Field Examiner's Name

Keith C. White

Date

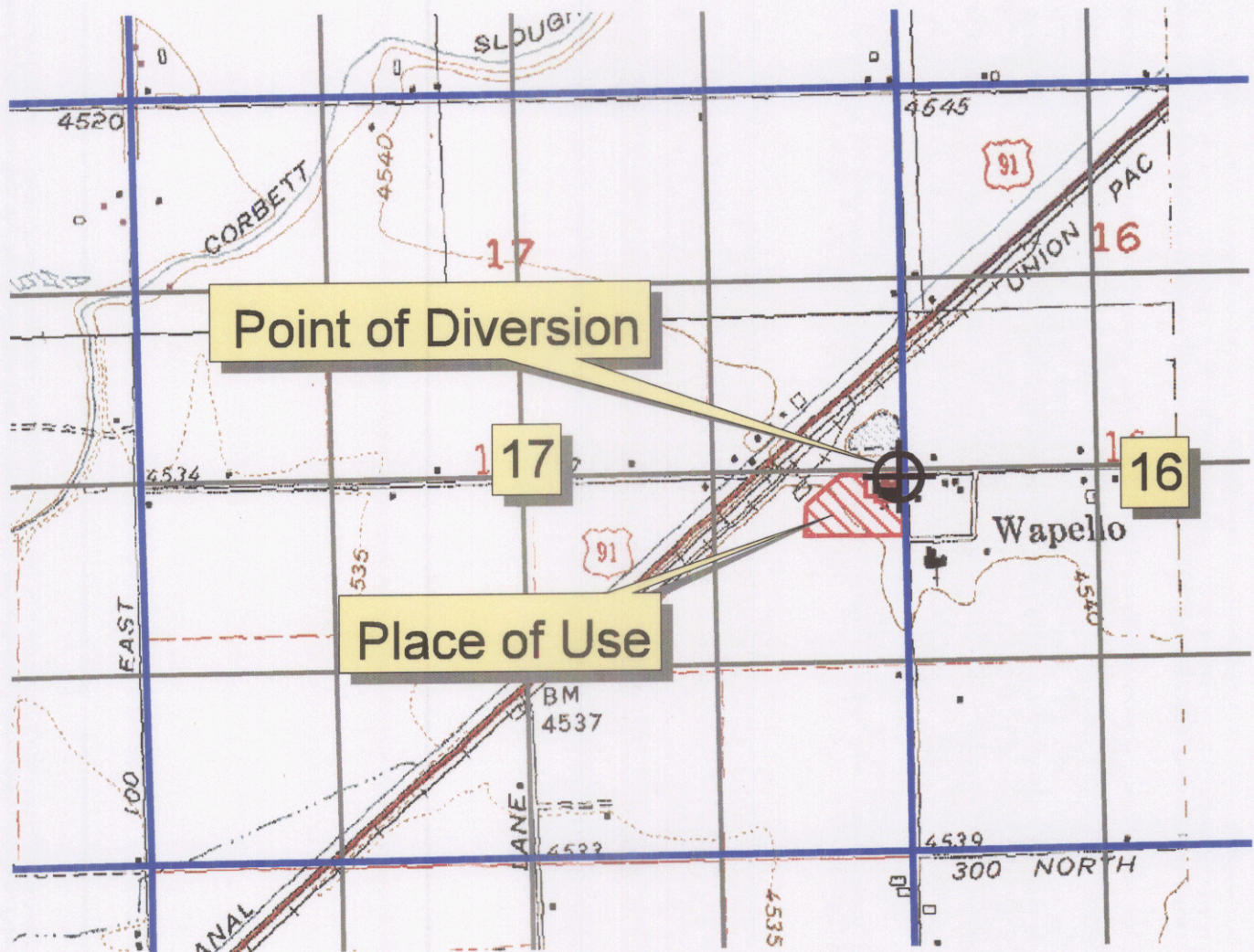
5/26/04

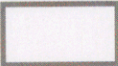
Reviewer

Date

SEAL

27-11964



-  Sections
-  GCDB02S36E GCDB
-  27-11964.shp

Wapello School

View from NE corner of Place of Use
Looking SW

Point of Diversion

AUT_4251
Photo #1

View from SE corner of Place of Use
Looking NW

AUT_4252
Photo #2

27-11964