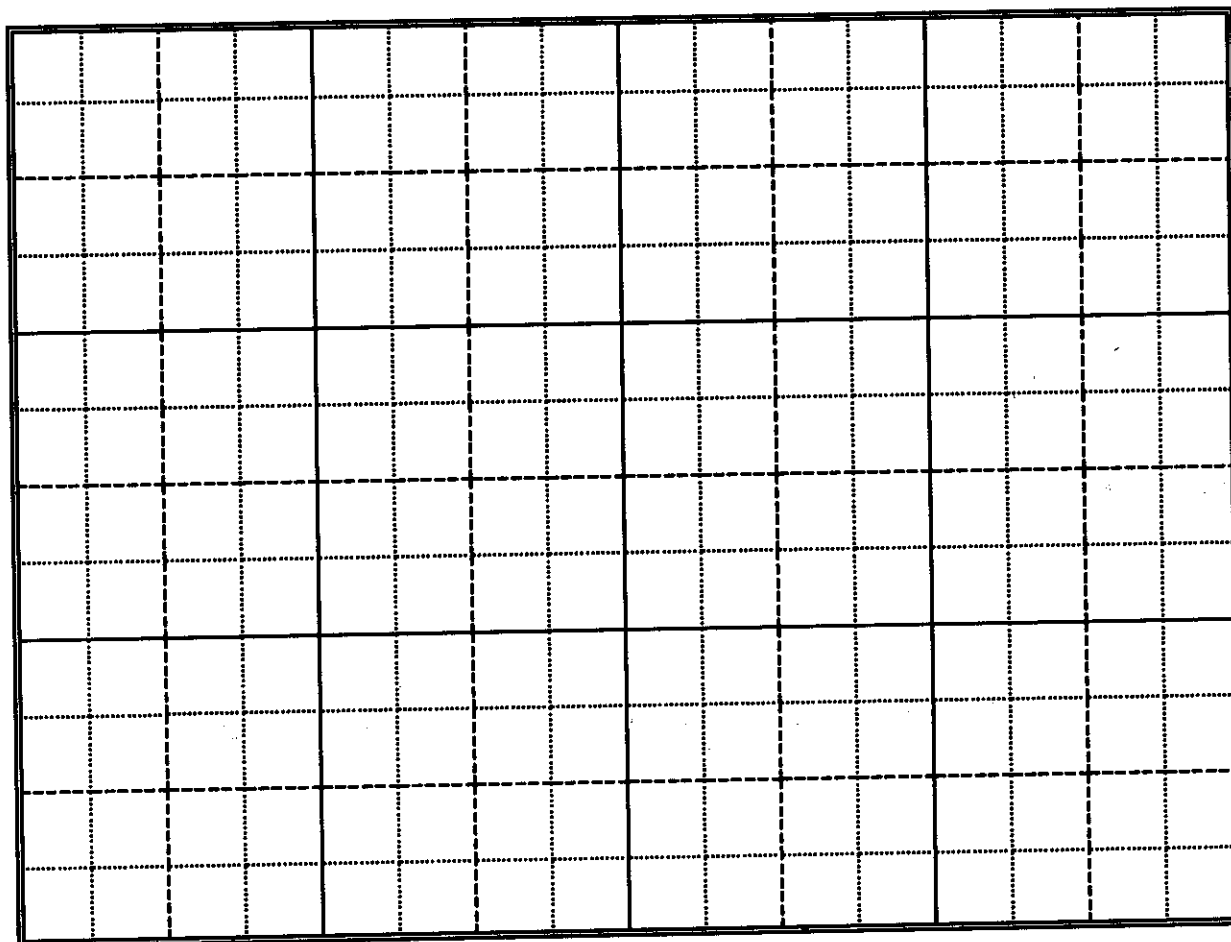


[illegible]

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



Scale: 1" = see attached page

☒ 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
	?	15	1355-150-9		

*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
Ultrasound flowmeter	TyqueFlyte	Polysarics	TF-P	N7H5506		

2. Measurements: With the Polysarics Ultrasound flowmeter, I measured a diversion rate of 140 gpm or 0.31 cfs from the well into the storage pond.

E. NARRATIVE/REMARKS/COMMENTS

see attached sheet

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

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

The pump installer, Elking Drilling, said the pump was designed to produce around 150 gpm.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (20 \text{ acres}) (4.0 \text{ cfs/acre}) = 80.0 \text{ cfs}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (0.31 \text{ cfs}) (214 \text{ days}) (1.9835) = 132 \text{ cfs}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 80.0 \text{ cfs}$$

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	0.31 cfs	80.0 afa
Totals:			0.31 cfs	80.0 afa

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. AUTHENTICATIONField Examiner's Name Bred Barry Date 8-6-93

Reviewer _____ Date _____

SEAL

DATE: August 6, 1993

FROM: Brett Barry

SUBJECT: P47-8268B Field Examination-Narrative/Comments

On July 30, 1993, the field examination for the above permit was conducted. Randy Anderson, one of the permit holders, accompanied myself during this examination.

The original permit, 47-08268, was amended and the water permit was split. The amendment called for changing part of the place of use of the original acres.

The permit applied for 20 acres of irrigation for 0.40 cfs. With the polysonics ultrasound flowmeter, I measured a diversion rate of 140 gpm or 0.31 cfs from the well into the storage pond. The pump installer, Elsing Drilling, said the submersible pump was designed to produce around 150 gpm. On the ASCS aerial photo, I found the proposed acres on the permit to be irrigated. The 20 acres drawn on the amended permit show the acreage to be north of the coulee and on the southeast part of the sod farm and in the NESW of section 28. The actual 20 acres are south of the coulee and on the southeast part of the sod farm and in the NESW of section 28. Because the 20 acres are within the same forty acre tract another amendment is not required.

This 8 in well has a 15 H.P. submersible pump set at 339 ft according to Elsing Drilling. The groundwater is pumped directly to a storage pond(open discharge) where it mixes with canal water(TFCC) and groundwater from L47-8085. A place of use overlap analysis is not required because L47-8085 is for 0.09 cfs in the SENW of section 28 (different forty acre tract than this permit). The primary headgate for this farm is located 1/8 mile south of the storage pond. There are a other secondary headgates located on this sod farm. One secondary headgate in the SESE of section 28 diverts water to a concrete ditch that gravity irrigates some trees on some acreage of this permit.

All of the water is pressurized and rediverted from the primary storage pond with a 25 H.P. pump(Century Ser# BE6, Cornell Pump Ser# 52994) and 15 H.P. pump(Baldor Ser# f791). 3 in handlines that are solid set run off a 6 in mainline(see system diagram). Most sprinkler heads are Nelson or Rainbird and have 9/64 in nozzles.

Condition:

This permit when combined with all other rights on the same P/U shall not exceed 0.02 cfs and 4.0 afa per acre.

Ultrasound
Flowmeter
Results

P47-8268B

E 86PM 7-30-93
MODE SELECT INPUT 10:30 A.M.
OUTER DIAMETER 3.5523 IN B.R.B. 7-30-93
PIPE MATERIAL ? PUC
WALL THICKNESS 0.2570 IN
INNER LINING ? NO LING.
KIND OF FLUID ? WATER
SENSOR MOUNTING ? U
TYPE OF SENSOR ? SMALL
DATA CHANGE ? NO
SPACING 1.866 IN U
ZERO MODE CLEAR
ZERO MODE AUT ZERO
ZERO MODE ZERO OPR
07-30 10:4000 *R
+003.10 % A12
DAMPING SET 15 SEC
07-30 10:4000 *R
+ 1.490E 26PM
MODE SELECT TO CHECK
MODE SELECT TO CHECK
0115.9 MMSEC
102.16 % T0
MODE SELECT INPUT
OUTER DIAMETER 3.5524 IN
PIPE MATERIAL ? PUC
WALL THICKNESS 0.2571 IN
INNER LINING ? NO LING.
KIND OF FLUID ? WATER
OUTER DIAMETER 3.5524 IN
PIPE MATERIAL ? PUC
WALL THICKNESS 0.2571 IN
INNER LINING ? NO LING.
KIND OF FLUID ? ANOTHER
SOUND VELOCITY 1440 M/S-
SENSOR MOUNTING ? U
TYPE OF SENSOR ? SMALL
DATA CHANGE ? NO
SPACING 1.783 IN U
ZERO MODE CLEAR
ZERO MODE AUT ZERO
ZERO MODE ZERO OPR
07-30 10:5000 *R
+003.10 % A12
MODE SELECT TO CHECK

too high → recalculated data, changed sound of velocity

Flowmeter Results

MODE SELECT
INPUT

10:30
A.M.

OUTER DIAMETER
3.5523 IN

B.R.B.
7-30-93

PIPE MATERIAL
? PVC

WALL THICKNESS
0.2570 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

DATA CHANGE
? NO

SPACING
1.866 IN U

ZERO MODE
CLEAR

ZERO MODE
AUT ZERO

ZERO MODE
ZERO OPR

07-30 10:4000 *R
+003.10 % AI2

DAMPING SET
15 SEC

07-30 10:4000 *R
+ 1.490E 2GPM

MODE SELECT
T0 CHECK

MODE SELECT
T0 CHECK

0115.9 MMSEC
102.16 % T0

MODE SELECT
INPUT

OUTER DIAMETER
3.5524 IN

PIPE MATERIAL
? PVC

WALL THICKNESS
0.2571 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

OUTER DIAMETER
3.5524 IN

PIPE MATERIAL
? PVC

WALL THICKNESS
0.2571 IN

INNER LINING
? NO LING.

KIND OF FLUID
? ANOTHER

SOUND VELOCITY
1440 M/S-

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

DATA CHANGE
? NO

SPACING
1.783 IN U

ZERO MODE
CLEAR

ZERO MODE
AUT ZERO

ZERO MODE
ZERO OPR

07-30 10:5000 *R
+003.10 % AI2

MODE SELECT
T0 CHECK

0115.2 MMSEC
099.22 % T0

07-30 10:5100 *R
+ 1.401E 2GPM

07-30 10:5100 *R
+ 1.404E 2GPM

07-30 10:5200 *R

too high → recalculated
data,
changed
sound of
velocity

BUHL 21 MI
TWIN FALLS (COURTHOUSE) 5

TS 10S
R 18E
S 28

Radio
Towers
(KLIX)

Redcap
Corner

U.S. Department of Agriculture
and University of Idaho
Research Center

PERMIT 47-8268B INIT B.R.B.

T. R. S. Q/Q

P/D 10S 18E 28 SE NW

SCALE 1" = 2000'

PHOTO ID.

Kimberly

Athletic
Field

Trailer
Park

1 Acres irrigated by sod farm
from storage pond

= Acres irrigated on permit
or place of use for permit

ROAD

NORTH

ROAD

PIPELINE

EAST

NORTH

TWIN FALLS G.W.M.A.

T. 10 S.
T. 11 S.

42°30'
114°22'30"

400 000 FEET

717

718

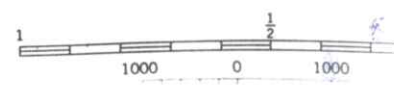
719

20'

720

Produced by the United States Geological Survey

Control by USGS and NOS/NOAA



10.1

Aerial Photo

T-2516
F-1483
HEL

2 NW
15.7

3 NW
6.7

2 NW
27.0

21

T-31080
F-2775

T-31087
F-2775

T-2967
F-2775
HEL

PERMIT 47-8268B INIT B.R.B.

T. R. S. Q/Q
P/D 105 18E 28 SE NW

SCALE 1" = 660'
PHOTO ID.

3910
2665

1 NW
7.6

29.7

HEL

2 NW
12.0

1 NW
12.2

T-2653
F-1328
NW 2 9/16 4.4

Acres irrigated on sod farm from storage pond that collects canal water, P47-08268B, L47-8085
Place of Use for P47-8268B

T-2653
F-1330

4 NW
10.1

3 NW
9.9

2 NW
8.3

5 NW
14.8

6 NW
15.0

T-2656
F-1329

4 NW
4.3

5 NW
5.3
28

3 NW
25.7

2 NW
22.1

6 NW
15.5

4 NW
18.0

T-2655
F-1329

3 NW
11.5

2 NW
24.7 NW

3 NW
19.9

4 NW
13.8

3 NW
13.3

1 NW
21.7

7 NW
12.1

6 NW
6.0

5 NW
12.1

28

PHOTO ID.

System Diagram

Storage Pouches P/D for P47-8268B
P/D for L47-8085

Primary
Headcote
for TACC
glazes
underground
mainline from
headcotes to pond

mainline

6" mainline
with 3" aluminum
handlines that are solid
set
also two 1/4" wide handlines

III P/O underperunit

secondary headgate
→ concrete ditch (siphon tubes)
uses gravity system
to water trees



P47-08268B
These photos were taken on July 30, 1993.

western
edge of 2nd storage pond

eastern
edge of 1st storage pond

1st
storage pond

metal
shop



Two pumps
25 H.P. / 5 H.P.
re-divert
canal water,
L47-8085 water,
& this
permit water
to sock farm

P47-08268B

These photos were taken on July 30, 1993.

well for L 47-8085
diverts water to
storage pond for Surveys
in SENW
0.09 cfs 12.0 cfs

because
this water
is supposedly
used in
SEW,
no overlap
P/O is
required

metal
shop



storage ponds

primary headgates
for TFCC canal water

coulee of
TFCC



P/D 747-0826813

These photos were taken on July 30, 1993.

These photos were taken from the north side of the storage pond looking north to northeast. This well diverts water directly to the storage pond with an open discharge.



↓ P/U

P47-08268B These photos were taken on July 30, 1993.
 These photos were taken from the canal by the permit holder's primary
 headgates. (Looking South to southeast)
 The twenty acres requested for irrigation of beneficial use under this
 permit lie on the southeastern part of the farm and run to the trees.
 (See aerial photo P/U)

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]