

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-07844

Exam Date: 5/31/2017

1. Current Owner:

ROBERT ALLEN FIFE 1998 COVE ROAD WEISER ID 83672 (208) 549-2142 And

MARJORIE FIFE 1998 COVE RD WEISER ID 83672 (208) 549-2142

2. Accompanied by: ALLEN FIFE

Phone No: (208) 549-2142

Address: 1998 COVE ROAD WEISER ID 83672

Relationship to Permit Holder: OWNER

3. SOURCE:

SPRING

TRIBUTARY:

WEISER RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Sunnyside Ditch Co. WRs 67-13435, 67-13442, 67-3, 67-4, 67-4415, and 67-4564

2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1.

LOCATION OF POINT(S) OF DIVERSION:

SPRING NW¼SE¼NW¼ Sec. 5, Twp 10N, Rge 04W, B.M. WASHINGTON County

Method of Determination: Field exam and aerial imagery.

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	
10N	04W	5		7.0 L 2			20.0 L 3			30.0									57.0

Total Acres: 57

Method of Determination: Field exam and aerial imagery.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pump	NA	NA	G290191	Berkeley	9" Impeller; 3" discharge

*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
NA	NA	NA	NA	NA	NA	NA

2. Measurements: No water measurements were obtained during the field exam. It was impossible to measure the spring seeping into the pond. Pumping rates were calculated using the pump curve for the pump. A rate was established using the standard 0.02 cfs per acres calculation (lesser of the two rates).

E. FLOW CALCULATIONS X Additional Computation Sheets AttachedMeasured Method: Pump Curve

Mr. Fife stated he runs the pump at 1800 – 2000 RPMs, which produces 550 gpm or 1.22 cfs (550 gpm / 9 gpm per miner's inches = 61.11 miner's inches; 61.11 miner's inches X 0.02 cfs = 1.22 cfs).

Measured Method: Rate / Acre Standard

Aerial imagery confirms the place of use is 57 acres. The Department's standard rate for irrigation greater than 5 acres is 0.02 cfs/acres. Therefore, the rate for 57 acres is limited to 1.14 cfs or 513 gpm (57 acres X 0.02 cfs).

1.14 cfs is recommended to licensing as it is the lesser of the two calculations.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: Irrigation using a natural stream flow diverted from a spring is exempt from volume reporting requirements (IDAPA 37.03.02 – 035.01j – viii).

G. NARRATIVE/REMARKS/COMMENTS

Permit No. 67-7844 authorizes a diversion rate of 2.00 cfs with no volume limits for irrigation purposes. A field exam was conducted by WRAs Patrick Kelly and Aaron Skinner on May 31, 2017, who were accompanied by Allen Fife, the permit owner.

BACKGROUND:

The purpose of this right was to add spring water to 149 acres already irrigated by Sunnyside Ditch Company. This right was developed as an emergency option consistent to the ditch company water usage. Although the permitted season of use is longer, the typical season of use is for 81 days matching the ditch company dates.

System Description:

Spring water seeps into the stream that eventually runs into the Weiser River. There is a 24" corrugated pipe that runs under the road east of the pump that is identified on the system diagram map. Although the corrugated pipe is there, water naturally backs up creating a pond. This allows water to be diverted from the stream to the Place of Use. An 8" aluminum pipe diverts water out of the stream and connects to a Power Take Off (PTO) pump. The pump is hooked up to a 550 Horse John Deere tractor that runs at 1,800 – 2,000 RPMs. The impeller is 9" with a 3" discharge. Water is pumped to each parcel via a 3" pipe where gated pipe is used to flood irrigate. Waste water is returned to the stream or diverted to a drain system that conveys water to the 4 acres parcel.

The permitted acreage is 149. The field exam and aerial imagery identified 57 acres that was developed with the available water from the spring. The POU will be limited to 7.0 acres in lot 2 of the NWNE, 20.0 acres in lot 3 of the NENW, and 30.0 acres in the SENW of Section 5.

Diversion Rate and Volume:

The permitted rate is 2.00 cfs. Irrigation using a natural stream flow diverted from a spring is exempt from volume reporting requirements (IDAPA 37.03.02 – 035.01j – viii). Therefore, a volume limit will not be forwarded to licensing. Because the spring seeps into the stream, it was impossible to obtain a measurement during the field exam. Two methods were used to obtain an estimated rate; a pump curve and the Department's standard rate of 0.02 cfs/acres. The pump curve was obtained online. As stated above, the tractor runs at 1,800 – 2,000 RPMs. The impeller is 9" with a 3" discharge. The attached pump curve estimates a rate of 550 gpm or 1.22 cfs. The standard rate of 0.02 cfs per acre produces a rate of 1.14 cfs as shown in Section E of this report. The lesser of the two methods is 1.14 cfs and will be recommended for licensing (57 X 0.02 cfs).

Ownership:

Current taxlot data was used to verify land ownership and confirms that Robert Allen Fife does own the land associated to this right. On April 19, 2017 an assignment of permit was received at the Western Office changing ownership from Larry

Boots to Robert and Marjorie Fife.

Overlap:

An overlap analysis was completed for the POD and POU. There are no POD overlapping WRs. Sunnyside Ditch Company WRs do overlap with the 57 acre POU. Combination use limits will be added as conditions establishing a use limit of 0.02 cfs per acre and a volume limit of 4.5 AF per acre.

Conditions:

Condition 026 and 016 were removed and forwarded for licensing. Condition 005 was updated to ~~001~~ adding Water District No. 67 to the language. Condition 086 was assigned to the language "No water shall be diverted..." Condition 03A was updated to WB7. Condition 01J was changed to 01R as a waiver was received from the Watermaster. Condition ~~001~~ R165 was added to establish a volume limit per acre and forwarded to licensing. RATE PER ACRE LIMIT WITH ALL OTHER WATER RIGHTS.

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	03/15 to 11/15	1.14 CFS	
	03/01/16		
	Totals:	1.140 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 X None

I. AUTHENTICATION

Field Examiner's Name Aaron Skinner Date 8/9/2017

Reviewer Angela M. Jimenez Date 8/30/2017

System Diagram for Permit No. 67-7844

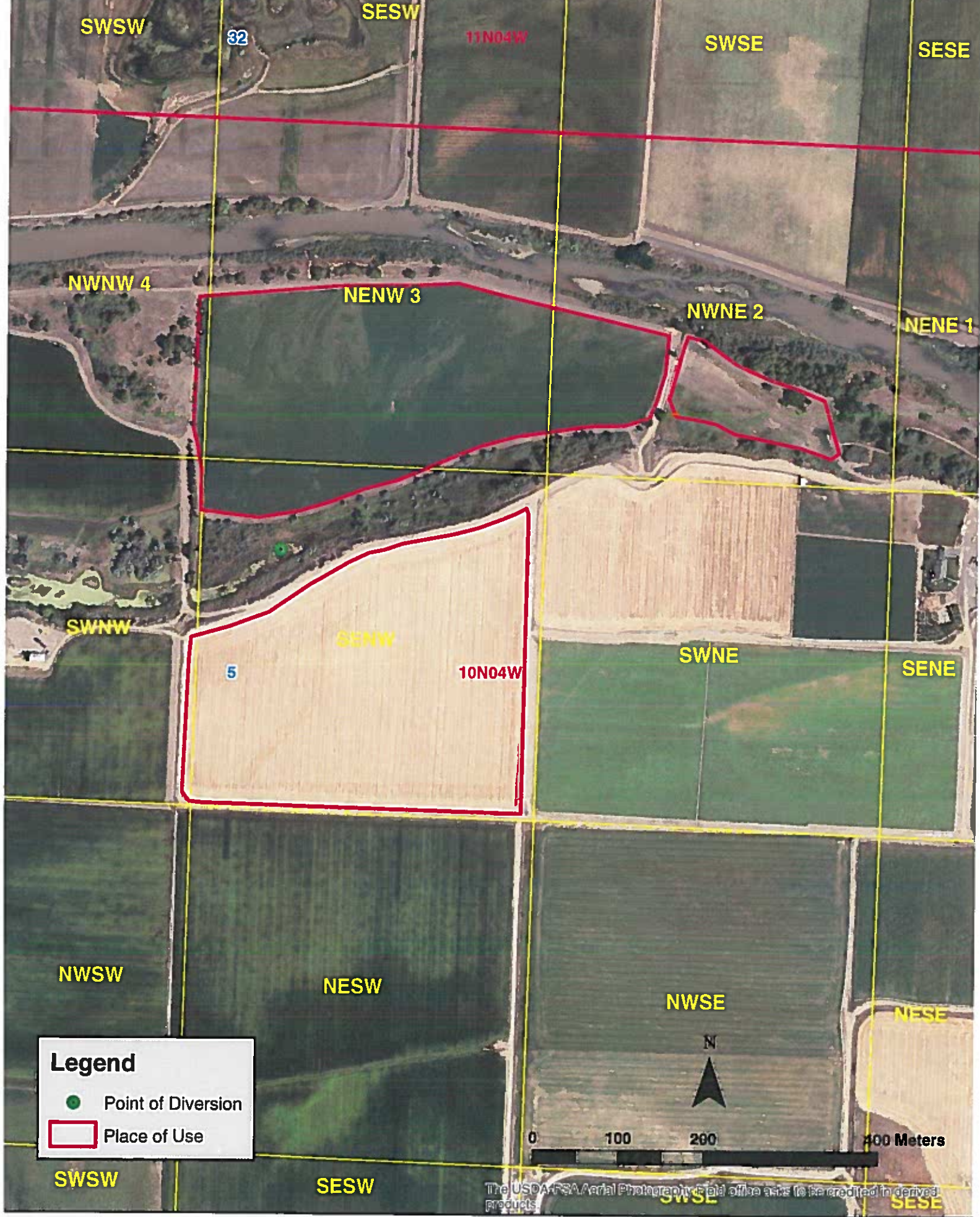
Legend

- Point of Diversion
- ⊕ Pump
- Drain
- 6" pipe
- Pipe connecting drains
- 6" gated pipe
- ➔ Waste_Water
- ➔ Flood Irrigation Flow Direction



0 100 200 400 Meters

Place of Use and Point of Diversion for Permit No. 67-7844



Legend

-  Point of Diversion
-  Place of Use

Pump Size: 3 x 4 x 9 M

Model: B3Z_M

Curve No. 5021

Type	CCMD	FM CPLG	FM BELT	SAE	Hydraulic	AC Engine
Model	B3ZPM	B3ZRM	B3ZRM	B3ZQM	B3ZRM-HYD	
RPM	1201-1800	1400-2500	1400-2300	1600-2500	1400-2500	

1800-2000 RPM per conversation w/Allen 7/28/17

Dia. 9.00"

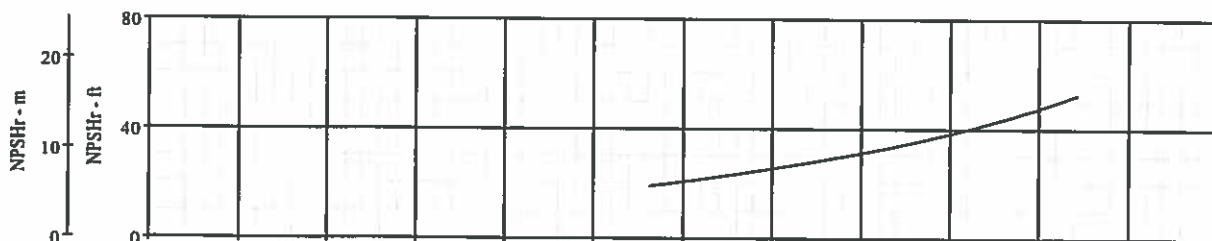
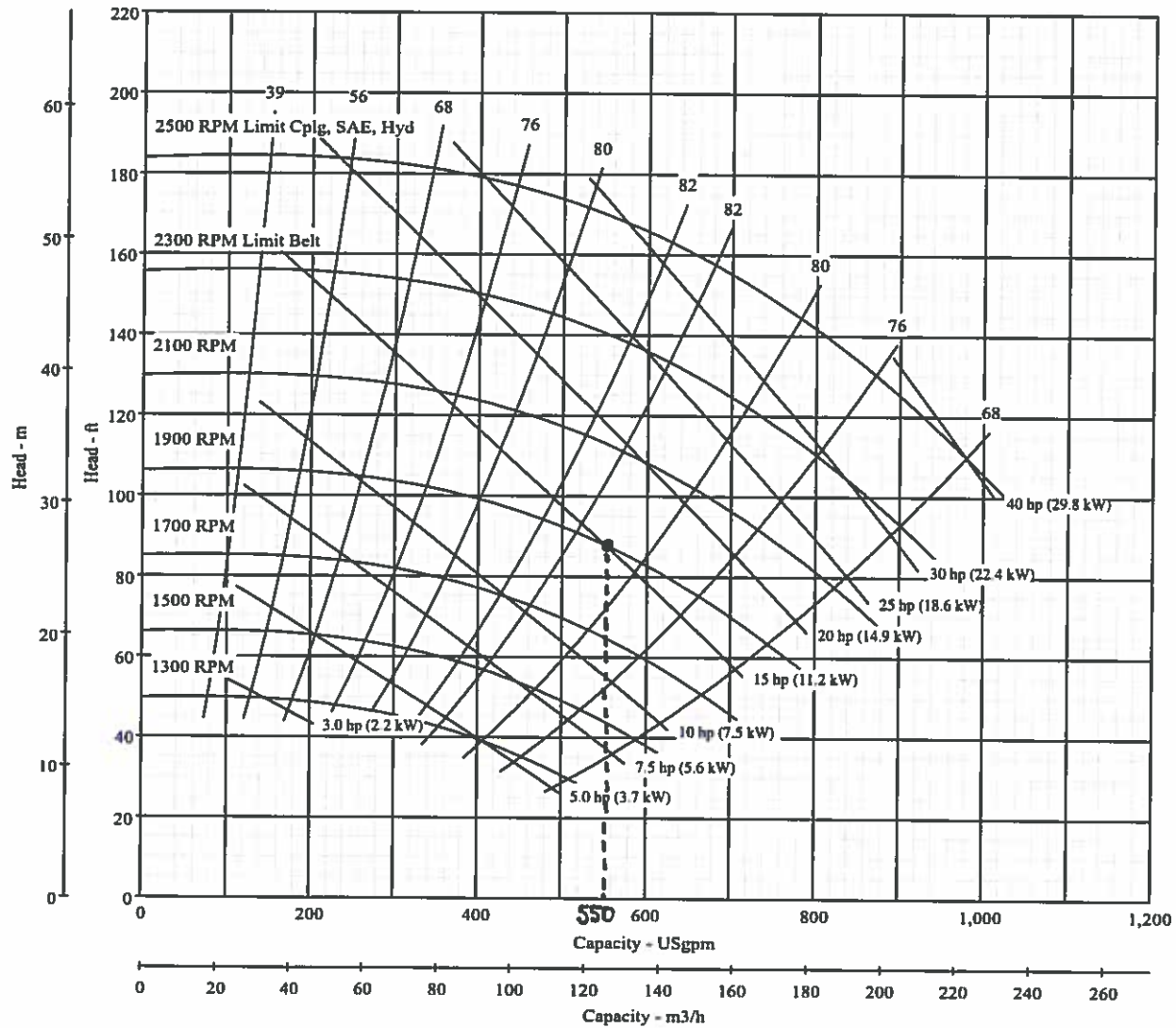
Nominal RPM:

VARIOUS

Based on Fresh Water @

68°F (20°C)

Maximum Working Pressure: 266 PSI (18 BAR)



*NPSH data shown is at maximum speed

PUMP MODEL NOMENCLATURE

NAME PLATE EXAMPLE:

B 4 G P B H S**B** – TYPE OF CONSTRUCTION

B = "Back Pull-Out" Design

4 – DISCHARGE SIZE (Inches)

NOMINAL IMPELLER DIAMETER (Inches)

G –	3" = A	7" = W	11" = F	15" = EX	18" = EY
	4" = M	8" = Y	12" = G	15.5" = XT	19" = EZ
	5" = X	<u>9" = Z</u>	13" = J	16" = ET	20" = EE
	6" = T	10" = E	14" = N	17" = EW	

TYPE OF DRIVE

P – P = Electric Motor – Pump Attached Directly to Motor Frame
 Q = Engine Drive – Pump Attached Directly to Engine Frame
 R = Frame Mounted Belt or Flexible Coupling Drive
 RM = Special Duty Mounting Frame

B – SPECIAL FEATURES (Optional)

B = Hydraulically Balanced Impeller Design
 K = Self-Priming

RELATIVE CAPACITY OF IMPELLER

H – LL = Very Low
 L = Low
 M = Medium (Often Omitted)
 H = High
 HH = Very High

2 – NUMBER OF STAGES (Optional)

[Single stages not indicated]

S – SHAFT SEAL (Optional)

S = Mechanical Seal (Packed Stuffing Box is not indicated)

10 – HORSEPOWER OF MOTOR OR ENGINE (Optional)
 (Normally indicated on Engine Driven Pumps only)

The model configurations above illustrate the complete range
 of closed coupled product identification numbers.

PUMP SIZE EXAMPLE:

4" x 6" x 13" B H**4"** – DISCHARGE SIZE (Inches)**6"** – SUCTION SIZE (Inches)

NOMINAL IMPELLER DIAMETER (Inches)

13" –	3" = A	7" = W	11" = F	15" = EX	18" = EY
	4" = M	8" = Y	12" = G	15.5" = XT	19" = EZ
	5" = X	9" = Z	13" = J	16" = ET	20" = EE
	6" = T	10" = E	14" = N	17" = EW	

B – SPECIAL FEATURES (Optional)

B = Hydraulically Balanced Impeller Design

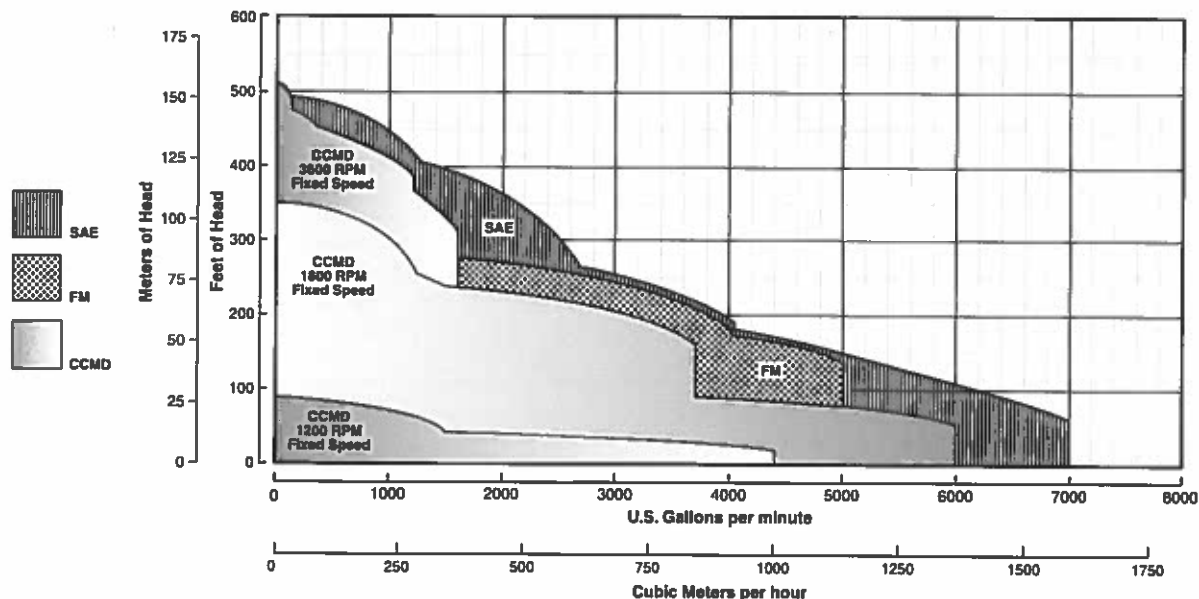
RELATIVE CAPACITY OF IMPELLER

H – LL = Very Low
 L = Low
 M = Medium (Often Omitted)
 H = High
 HH = Very High

Name Plate **B3ZRM**

- 3" discharge
- 9" impeller diameter
- special duty mounting frame

Berkeley Type B Hydraulic Performance (by product group)



Overlap Analysis for Permit No. 67-7844 POID

Process	Basin/Sequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
Water Right	67-7844	Y	BOOTS, EILEEN M; BOOTS, LARRY C; FIFE, MARJORIE; FIFE, ROBERT ALLEN	SPRING	IRRIGATION									X								
Water Right	67-10420	N	ROUTSON RANCH	GROUND WATER																		
Water Right	67-7864	N	BEAN, DAVID GENE; BEAN, LEWIS RODNEY; BEAN, NANCY BELLE; SMITH, DAN C; SMITH, VERLA	POND								X										

Overlap Analysis for Permit No. 67-7844 POU

Process	Basin/Sequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
Water Right	67-7844	Y	BOOTS, EILEEN M; BOOTS, LARRY C; FIFE, MARJORIE; FIFE, ROBERT ALLEN	SPRING	IRRIGATION	3	16	40	33	23			10									149
Water Right	3-2006	N	WEISER FLAT PIPE LINE CO LTD; WEISER IRRIGATION DISTRICT	SNAKE RIVER	IRRIGATION	X	X		X	X	X											
Water Right	3-7005	N	WEISER IRRIGATION DISTRICT	SNAKE RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-10	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-10420	N	ROUTSON RANCH	GROUND WATER	DOMESTIC																	
Water Right	67-10420	N	ROUTSON RANCH	GROUND WATER	STOCKWATER																	
Water Right	67-11	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-12	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-13435	N	MUHL, JOHN T; MUHL, WILLIAM H; SMITH, CHESTER A; SMITH, GEORGE F; SMITH, JOHN L; SMITH, ANNIE B; SUNNYSIDE DITCH CO	WEISER RIVER	IRRIGATION	X	X		X	X	X			X	X	X	X	X	X	X	X	
Water Right	67-13442	N	SUNNYSIDE DITCH CO	WEISER RIVER	IRRIGATION	X	X		X	X	X			X	X	X	X	X	X	X	X	
Water Right	67-158	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-14	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-14621	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-14703	N	CRANE CREEK RESERVOIR ADMINISTRATION BOARD	CRANE CREEK	IRRIGATION FROM STORAGE	X	X		X	X	X			X	X	X	X	X	X	X	X	
Water Right	67-14704	N	CRANE CREEK RESERVOIR ADMINISTRATION BOARD	CRANE CREEK	IRRIGATION FROM STORAGE	X	X		X	X	X			X	X	X	X	X	X	X	X	
Water Right	67-14705	N	CRANE CREEK RESERVOIR ADMINISTRATION BOARD; SNOW, EDWIN; WEISER RIVER IRRIGATION DISTRICT	CRANE CREEK	IRRIGATION FROM STORAGE	X	X		X	X	X			X	X	X	X	X	X	X	X	
Water Right	67-15	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-16	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-17	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-18	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-19	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-20	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-21	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-2168B	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-2169G	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-22	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-3	N	SUNNYSIDE DITCH CO	WEISER RIVER	IRRIGATION	X	X		X	X	X			X	X	X	X	X	X	X	X	
Water Right	67-4	N	SUNNYSIDE DITCH CO	WEISER RIVER	IRRIGATION	X	X		X	X	X			X	X	X	X	X	X	X	X	
Water Right	67-4415	N	SUNNYSIDE DITCH CO	WEISER RIVER	IRRIGATION	X	X		X	X	X			X	X	X	X	X	X	X	X	
Water Right	67-4564	N	SUNNYSIDE DITCH CO	WEISER RIVER	IRRIGATION	X	X		X	X	X			X	X	X	X	X	X	X	X	
Water Right	67-7864	N	BEAN, DAVID GENE; BEAN, LEWIS RODNEY; BEAN, NANCY BELLE; SMITH, DAN C; SMITH, VERLA	POND	IRRIGATION							10	28									
Water Right	67-8	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											
Water Right	67-9	N	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X	X		X	X	X											

no overlap.

overlap.

no overlap.

no overlap.

no overlap.

overlap, supplemental conditions added

no overlap.

* 67-7844 is supplementary to Sunny Side Ditch Co. Conditions added to draft license.



Stream that the spring runs in to. An 8" aluminum pipe diverts water out of the stream to the pump.



Power Take Off (PTO) centrifugal pump used to pull water from stream. A 550 HP John Deere tractor connects to the pump. Mr. Fife generally runs the pump at 1,800 – 2,000 RPMs.



Place of use for the north 26 acres. Water is pumped via a 3" PVC line to the top of the field. Gated pipe is used to irrigate.



Waste water from each field is recaptured and sent back to the pond for reuse.



Small channel that conveys waste water back to the stream for reuse.



Place of use for the south 27 acres. Water is delivered via a 3" line and pipe irrigated.



Ditch that captures waste water and returns it to either the stream or conveys water to the 4 acres of trees in the NWNE lot 2 Section.



End of the ditch for the 27 acres. Water is diverted across the dirt road through a buried pipe and into a bigger ditch/drain.



Catch basin at the end of the ditch. The location is shown on the system diagram as drain 1.



Discharge pipe across the road from the 27 acre parcel. Water can be returned to the stream or be diverted to the drain east of the 27 acre parcel.



Ditch that conveys waste water to the 4 acres of trees.



Main drain that delivers water to the 4 acres as shown on the system diagram map. Drain 2 captures the water and conveys the water through the pipe in the picture.



4 acres of trees
that are flood
irrigated via waste
water from the
spring.

APR 19 2017

WATER RESOURCES
WESTERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

ASSIGNMENT OF PERMIT

To change the ownership of a permit

\$25 fee per permit

Received by (VRS)Receipt amt. \$ 25.-Receipt no. W045186Date 4/19/2017

I, LARRY C. BOOTS, hereby assign to Robert Allen Fife, Marjorie Fife
 Current owner(s) New owner(s)
 of, 1998 Cave Rd Weiser Id 83672 208 549 2142
 New owner's address including city, state and ZIP Phone

All my right, title, and interest in and to Permit No(s): 67-7844 to
 appropriate the public waters of the State of Idaho.

OR (for partial assignments)

The following described portion of my right, title, and interest in and to Permit Number(s):

_____, to appropriate the public waters of the State of Idaho.

Describe in detail the portion of the permit assigned, listing the number of acres in each 40 acre subdivision, point of
 diversion location, and amount of the water in cubic feet per second.

Does the new permit holder own the property at the:

Point of diversion? ☒ Yes ☐ NoPlace of use? ☒ Yes ☐ No

If no, describe the arrangement enabling the new owner to access the point of diversion and/or the place of use:

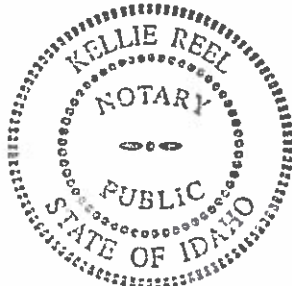
Dated this 14th day of April, 2017.

Larry C. Boots PERMIT HOLDER
 Permit holder Title (if applicable) Permit holder Title (if applicable)

State of Idaho)
)ss
 County of WASHINGTON)

On this 14 day of APRIL, 2017, personally appeared before me the signer(s) of the above
 instrument, who duly acknowledged to me that he/she/they executed the same.

SEAL



Notary Public

My commission expires: 04.03.21



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 7, 2017

COPY

LARRY C BOOTS AND/OR
EILEEN M BOOTS
1437 ROSS ROAD
WEISER, IDAHO 83672

RE: Scheduling Field Exam for Water Right Permit No. 67-7844

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **during the weeks of May 8th – May 26, 2017**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes a **diversion rate of 2.0 cfs for irrigation use from a spring, a tributary of the Weiser River**. If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.

If you did not develop a beneficial use of water under the permit or if you did develop that use, but subsequently abandoned it, a license cannot be issued. Please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required). The permit will be voided if beneficial use under the permit was not developed or was developed, but is now abandoned and you do not relinquish the permit.

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days to either schedule an examination, submit a relinquishment, or submit an assignment. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Please call me at (208) 334-2190 if you have any questions. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

Aaron Skinner
Water Resource Agent

Enclosures: Water Permit Report and Map
Relinquishment of Permit form
Assignment of Permit form

The source appears to be a part of a natural drain that carries water from other areas. Along with the proof of beneficial use submitted in August of 1991 the then permit holder submitted a request for waiver of measurement device (approved) and a statement indicating that the pumping system is not quite capable of producing 1 inch per acre. He also included pump curves for his pump.

The permit is in Larry Boots' name but tax lot information shows that the entire parcel is owned by Allen Fife.

67-7844

10N, 4W, Sec 5

2011 AERIAL PHOTO

Permitted source = spring Application describes source as spring water on property and wastewater.

Yellow outline ≈ 130 acres

