

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-08059

Exam Date: 9/9/2016

1. Current Owner:
RICHARD A DOBERSTEIN 1310 AIRPORT RD WEISER ID 83672 520-508-2104
2. Accompanied by: Richard and Robert Doberstein
Address: 1310 Airport Road, Weiser, ID 83672
Relationship to Permit Holder: Current Owner

3. SOURCE:
GROUND WATER

TRIBUTARY:

B. OVERLAP REVIEW

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

Overlap analysis exposed eight (8) WR with the same POU. Further investigation indicates overlap with supplemental use limitations. WR no. 67-14703, 67-14704, and 67-14705 are owned by Crane Creek Reservoir Administration Board. It is unknown if surface water from this irrigation district is diverted to the BU area of this permit. WR no. 67-2226 and 67-2036A are not applicable as the WR POU is on the other side of the slough (south of the POU). WR no. 3-10225, 3-10226, and 3-10009 are surface water irrigations rights owned by Richard Doberstein and will be used as the primary source for irrigation. WR no. 67-10744 is a groundwater domestic use right, therefore, is not pertinent to irrigation.

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

Overlap analysis revealed one (1) WR with the same POD. Further investigation indicates WR 3-10009 is a surface water diversion from that pulls from the nearby slough. Therefore, no overlap was found.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER (NE¼NW¼) Sec. 8, Twp 10N, Rge 05W, B.M. WASHINGTON County

Method of Determination:

Field exam and PLS data revealed that the POD is located in a different QQ as described in the WR permit legal description.

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	05W	5											36.0 L 6						36.0
10N	05W	8		9.0			25.0	10.0 L 4											44.0

Total Acres: 80

Method of Determination:

Field exam and PLS data was used to verify the WR permit legal descriptions.

3. MAPPING:

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 INFORMATION:

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0018187	US Electric	5	E03 01063253 001F	unknown	unknown

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

D. FLOW MEASUREMENTS**1. FLOW RATE INFORMATION:**

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
n/a	n/a	n/a	n/a	n/a	n/a	n/a

2. Measurements:

New User does not use the well; therefore the well is not operating at the time of the field exam.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 20-40 ft.

psi = 10

hp = 5

See attached theoretical sheet.

Theoretical = 0.59 cfs

Permit	1.60 cfs
B.U. Standard Allowance	1.60 cfs
B. U. Proof Fee	\$100 → 0.21 – 1.00 cfs
Measurement or Theoretical Rate	0.59 cfs
License Recommendation	0.59 cfs

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 80 \text{ acres} \times 4.5 \text{ field head requirement} = 360 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.59 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 304.3 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 304.3 \text{ af}$$

2. Volume Calculations for Other Uses: n/a**G. NARRATIVE/REMARKS/COMMENTS**

The field exam was conducted on September 9, 2016 by agents Patrick Kelly and Aaron Skinner. They were accompanied by the property owner Richard Doberstein and his brother, Robert Doberstein, at the well location.

Ownership of the WR permit and Taxlot data was in the name of Elizabeth Mackay Farms, but the Western office has since received a completed Notice of Change in Water Right Ownership form and it has been added to the exam file.

Groundwater is received from the well that was drilled in March of 2001. Well driller's log for WR no. 67-8059 was obtained and has a static water level of 8 feet and complete depth of 56 feet. At the time of the field exam, a US Electrical 5 hp motor was in place to provide water to the irrigation system. Currently, the new owner does not use the well. As a result, the well was not operating at the time of the field exam and no flow rate measurements were able to be completed.

Theoretical measurements were calculated for the irrigation system using the 5 hp pump as a standard for each scenario. The known static level for the well was recorded at 8 feet in the well log. Therefore, we estimated the pumping level to be 20, 30, and 40 feet respectively for the three scenarios. The well water bifurcates to two bubblers and a head gate. It was assumed that minimal pressure was needed because water traveled through an open discharge system. Theoretical calculations used 10 psi for each scenario. Attached are the three calculated rate of flows. The average rate of flow totaled 0.59 cfs compared to the permitted discharge of 1.60 cfs.

Overlap analysis exposed nine (9) WR with the same POU. Further investigation indicates overlap with supplemental use limitations. WR no. 67-14703, 67-14704, and 67-14705 are owned by Crane Creek Reservoir Administration Board. It is unknown if surface water from this irrigation district is diverted to the BU area of this permit. WR no. 67-2226 and 67-2036A are not applicable as the WR POU is on the other side of the slough (south of the POU). WR no. 3-10225, 3-10226, and 3-10009 are surface water irrigations rights owned by Richard Doberstein and will be used as the primary source for irrigation. WR no. 67-10744 is a groundwater domestic use right, therefore, is not pertinent to irrigation.

POD overlap analysis suggests one (1) WR may have the same POD location. Further investigation indicates no overlap as WR 3-10009 diverts water from the Snake River (slough) not groundwater. **At the time of the field exam, it was confirmed that the permitted POD was in the wrong QQ.** Moving forward, Mr. Doberstein will need to sign the amended license and pay the \$100 fee before the WR license is issued.

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	03/01 to 11/15	0.59 CFS	304.3 AF
	<u>Totals:</u>	0.590 CFS	304.30 AF

2. Recommended Amendments

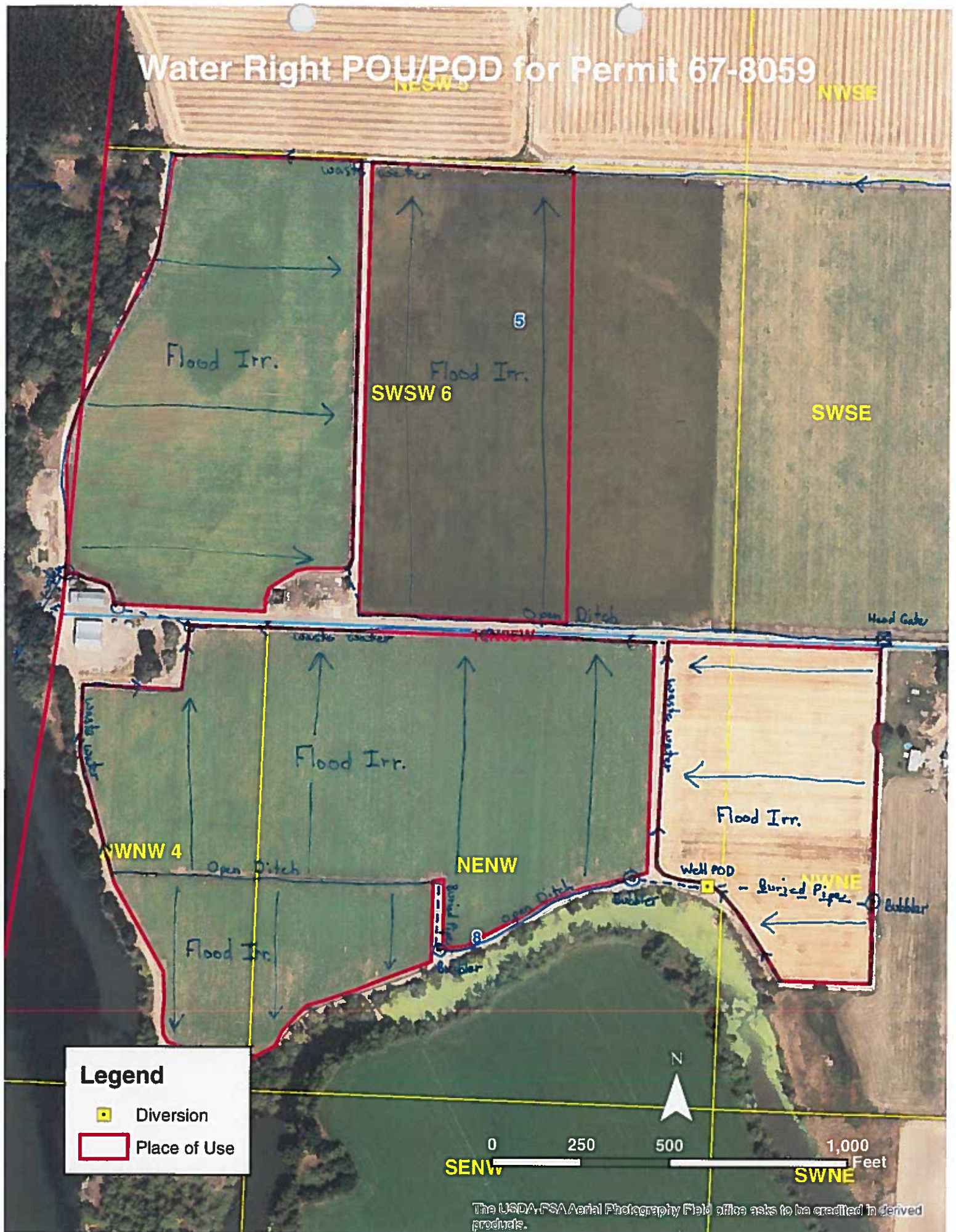
☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

Field Examiner's Name: Aaron Skinner Date: 9/9/2016

Reviewer: _____ Date: _____

Water Right POU/POD for Permit 67-8059



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 67-8059
 Reviewer: Aaron Skinner
 Date of Review: 9/9/2016

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	5	5	5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	20	30	40
DISCHARGE PRESSURE	10	10	10
RATE OF FLOW (cfs)	0.71	0.58	0.49 0.59

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

A 5 hp US Electric Motor pump was observed on well tag D0018187. A range of static water levels is assumed given the well log. Well log shows a static level of 8 feet, perforations at 24-33 feet, and a max depth of 56 feet. A minimal pressure of 10 psi is considered for an open discharge system. The average theoretical flow rate calculates to 0.59 cfs.

[illegible]

PID#	Draft #	Owner		Use	NENE	HWHN	SWNE	SE	NENW	NNWN	SWNW	SENW	NSW	NNWS	SSWS	SESW	NENE	NHWE	SHWE	SESE	Totals Acres
Water Perm	65-73106	M LOWER PAYETTE DITCH CO	PAYETTE RIVER	X																	
Water Perm	65-23805	M LAKE RESERVOIR CO	FALL CREEK	X																	
Water Perm	67-8059	M ELIZABETH MACKEY FARMS	GROUND WATER	IRRIGATION FROM STORAGE	X																
Water Right	3-10001	N BRANDT, LEROY E; ROBERTS FARMS INC; THE BRANDT HOME PLACE LLC	SHAKE RIVER	IRRIGATION			22	1			12	23	38	17	15	9					90
Water Right	3-10002	N BRANDT, LEROY E; ROBERTS FARMS INC; THE BRANDT HOME PLACE LLC	SHAKE RIVER	IRRIGATION																	170
Water Right	3-10009	N DOBERSTEIN, RICHARD A; MACKAY, ELIZABETH C; MACKAY, STEVEN W	SHAKE RIVER	IRRIGATION		4.5	9		37	10	4.5	16									81
Water Right	3-10110	N CITY OF WEISER; MAC HUGH BROWLEY PLLC	SHAKE RIVER	MUNICIPAL	X																13
Water Right	3-10225	N DOBERSTEIN, RICHARD A; MACKAY, ELIZABETH C; MACKAY, STEVEN W	SHAKE RIVER	IRRIGATION																	
Water Right	3-2006	N WEISER FLAT PIPE LINE CO LTD; WEISER IRRIGATION DISTRICT	SHAKE RIVER	IRRIGATION	X																78
Water Right	3-7005	N WEISER IRRIGATION DISTRICT	SHAKE RIVER	IRRIGATION	X																
Water Right	3-7009	N CITY OF WEISER; MAC HUGH BROWLEY PLLC	SHAKE RIVER	MUNICIPAL	X																
Water Right	65-11413	N LOWER PAYETTE DITCH CO	GRAVEYARD GULCH WASTEWAY	IRRIGATION				X													
Water Right	65-12279	N LOWER PAYETTE DITCH CO	GRAVEYARD GULCH WASTEWAY	IRRIGATION				X													
Water Right	65-165A	N LOWER PAYETTE DITCH CO	PAYETTE RIVER	IRRIGATION				X													
Water Right	65-165B	N LOWER PAYETTE DITCH CO	PAYETTE RIVER	IRRIGATION				X													
Water Right	65-165C	N LOWER PAYETTE DITCH CO	PAYETTE RIVER	IRRIGATION				X													
Water Right	65-165D	N LOWER PAYETTE DITCH CO	PAYETTE RIVER	IRRIGATION				X													
Water Right	65-2923C	N LAKE RESERVOIR CO; OSTERMILLER, DANIEL P; STURGEON, R C JOHN	PAYETTE RIVER	IRRIGATION				X													
Water Right	65-2923E	N LAKE RESERVOIR CO; NEFF, BYRCE H; WHITEHEAD JR, MARVIN E	FALL CREEK	IRRIGATION FROM STORAGE	X			X													
Water Right	65-7425	N LOWER PAYETTE DITCH CO	PAYETTE RIVER	IRRIGATION				X													
Water Right	65-7428	N LOWER PAYETTE DITCH CO	PAYETTE RIVER	IRRIGATION				X													
Water Right	65-7848	N LOWER PAYETTE DITCH CO	PAYETTE RIVER	IRRIGATION				X													
Water Right	65-7842	N LOWER PAYETTE DITCH CO	GRAVEYARD GULCH WASTEWAY	IRRIGATION				X													
Water Right	65-7855	N CONNECTICUT GENERAL LIFE INSURANCE CO; LOWER PAYETTE DITCH CO	GRAVEYARD GULCH WASTEWAY	IRRIGATION				X													
Water Right	67-10	N WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION	X																
Water Right	67-10178	N SMITH, LEOLA C; SMITH, REEFORD	GROUND WATER	DOMESTIC	X																
Water Right	67-10454	N DAWSON, GENEVA M; ROBERTS, ADELIA KAY; ROBERTS, LLOYD	GROUND WATER	IRRIGATION					13												13
Water Right	67-10489	N DAWSON, GENEVA M	GROUND WATER	DOMESTIC					X												
Water Right	67-10490	N DAWSON, GENEVA M	GROUND WATER	DOMESTIC					X												
Water Right	67-10744	N DOBERSTEIN, RICHARD A; MACKAY, ELIZABETH C; MACKAY, STEVEN W	GROUND WATER	DOMESTIC																	
Water Right	67-10914	N KWJ	GROUND WATER	DOM																	

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

768064

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____
☐ Air ☐ Flowing Artesian

1. WELL TAG NO. D 18187
DRILLING PERMIT NO. _____
Other IDWR No. 67-08059 WRH

2. OWNER:
Name Elizabeth Mackay Farms
Address 3800 Deck St
City Ontario State OR Zip 97914

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N
W
S
E
Twp. 10 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 8 1/4 NW 1/4 NE 1/4 SE 1/4 SW 1/4
Gov't Lot _____ County Washington
Lat: _____ Long: _____
Address of Well Site B25 Ross Rd
City Weiser
(Give at least name of road - Distance to Road or landmark)

Lt. _____ Bk. _____ Sub. Name _____

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK	AMOUNT	METHOD
Material From To	Spcks or Pounds	
Bentonite 0 18	1500	temp Casing

Was drive shoe used? ☒ N Shoe Depth(s) 33
Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
16	20	33	.375	Steel	☒	☐	☒	☐
16	1	20	.150	Steel	☐	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method TORCH
Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
24	33	1/8x5	600	16	Steel	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

8 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

Yield gal/min.	Drawdown	Pumping Level	Time
290	19'	29'	4hr
See Enclosed			

Water Temp. 61° Bottom hole temp. _____
Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
24	0	16	Brown Silty Clay		
24	16	18	Sand + Gravel		
16	18	33	Sand + Gravel		
16	33	56	Blue clay		

RECEIVED

JAN 22 2002

WATER RESOURCES
WESTERN REGION

Completed Depth 56 (Measurable)
Date: Started 3-7-01 Completed 3-7-01

13. DRILLER'S CERTIFICATION

We certify that all minimum well construction standards were complied with at the time the rig was removed.
Company Name Dallas Dull Firm No. 445
Firm Official [Signature] Date 2-17-02
and _____
Driller or Operator _____ Date _____
(Sign once if Firm Official & Operator)

CERTIFIED WELL TEST RESULTS

OWNER: ELIZABETH MACKAY FARMS
380 DECK ST.
ONTARIO OREGON 97914

CERTIFIED WELL TEST DATE: 3-19-01

LOCATION/LEGAL DESCRIPTION

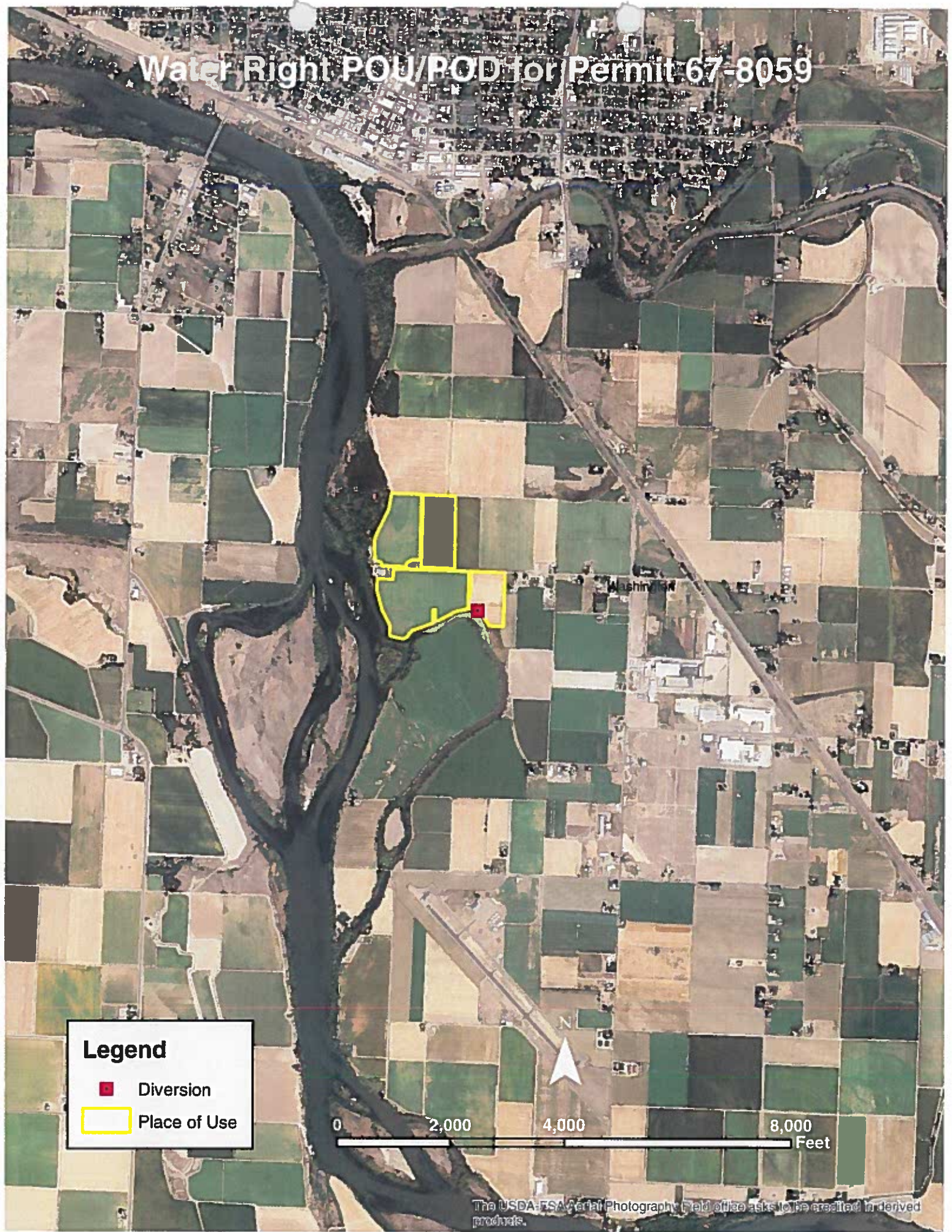
1325 ROSS RD. WEISER ID. TWP:10n RGE: 5w SEC. 8 NW1/4 NW1/4

TOTAL DRAW DOWN 19'
DIAMETER OF WELL 16"
DEPTH OF WELL 60'
CASED DEPTH 33'
TYPE OF PUMP TEST PUMP
TANK INFORMATION NONE
WELL SEAL PRESENT YES
STATIC WATER LEVEL 10'
TOTAL WATER PUMPED AT END OF TESTING PERIOD
ADDITIONAL NOTES: PUMPED 260 G.P.M. AT 29 FEET.

WELL TEST COMPLETED BY MR. LEON GRIFFIN

<u>TIME</u>	<u>G.P.M.</u>	<u>WATER LEVEL</u>	<u>DRAW DOWN</u>
8:45 AM	300	20'	10'
9:00 AM	300	26' 9"	6'
9:30 AM	300	27' 2"	5"
10:00 AM	300	27' 8"	6"
10:30 AM	290	28' 2"	6"
11:00 AM	290	28' 9"	7"
11:30 AM	290	28' 11"	3"
12:00 PM	290	29'	2"
12:30 PM	290	29'	0
12:45 PM	290	29'	0

Water Right POU/POD for Permit 67-8059



Legend



Diversion



Place of Use

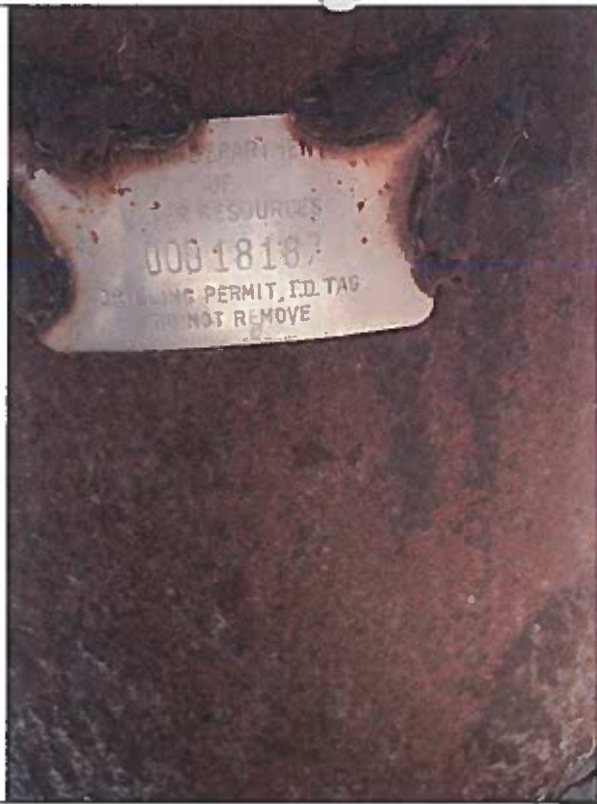
0 2,000 4,000 8,000 Feet



POD for WR 67-8059. The well is not currently in use, but water bifurcates to each side of the beneficial use area through this diversion.



5 hp US Electrical Motors



Well ID Tag D0018187



Bubbler in one of the beneficial use areas. This bubbler is in the southeast corner of the property.



Head gate that feeds the open ditch running through the middle of the beneficial use area. Just beyond the tree and dirt road is the southeast corner bubbler.



Inside of the head gate that diverts water laterally through the beneficial use area.



East reach of the head gate ditch.



West reach of the head gate ditch.



Open ditch that feeds the beneficial use area for flood irrigation.



State of Idaho
DEPARTMENT OF WATER RESOURCES

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

PHONE: (208) 334-2190 FAX: (208) 334-2348 www.idwr.idaho.gov

C.L. "BUTCH" OTTER, Governor

GARY SPACKMAN, Director

June 6, 2016

CURRENT RESIDENT
1328 ROSS RD
WEISER ID 83672

RE: Scheduling Field Exam for Water Permit No. 67-8059

Dear Permit Holder:

The Idaho Department of Water Resources (IDWR) is planning to conduct water right examinations in the vicinity of the above-referenced permit **during the weeks of 6/6/2016 to 6/10/2016**. An examination is needed to verify water use(s) developed under the permit in order to issue a water right license.

Communication with a Steve Mackay (permit holder) representative informed the department that Mr. Mackay has passed away since filing proof of beneficial use in 2001 and that the farm was sold after his death. Current county taxlot data still indicates Mr. Mackay as current land owner and no forwarding address or information could be provided. Water permit 67-8059 authorizes 1.6 cfs from a ground water source for irrigation of 80 acres within Township 10N Range 5 W of Washington County. If you developed a beneficial use of water and currently own the place of use property identified in the permit, please contact me at your earliest convenience to schedule an examination.

Please contact me within the next thirty (30) days to schedule an examination. If you own the property in question but do not make a timely response in this regard, action will be taken to void the permit. If you no longer own that property and do not assign or relinquish the permit, IDWR 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 to this matter and look forward to hearing from you.

Sincerely,

Patrick Kelly
Water Resource Agent, Sr.

Enclosure: 67-8059 Proof Report
67-8059 Map