

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-8012

Exam Date: 5/9/2013

1. Current Owner: NORMA R GROSSEN
PO BOX 72
INDIAN VALLEY ID 83632-0072
(208)256-4419

AND

TOMMY L GROSSEN
PO BOX 72
INDIAN VALLEY ID 83632-0072
(208)256-4419

2. Accompanied by: Tom Grossen
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 67-7878, 67-2385, 67-7524
2. Other water rights with the same point of diversion: 67-8011

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

GROUND WATER	NW1/4SE1/4	Sec. 3,	Twp 14N,	Rge 01W, B.M.
GROUND WATER	NE1/4NE1/4	Sec. 9,	Twp 14N,	Rge 01W, B.M.

ADAMS County

Method of Determination: Arc Map (Aerial Photo); GPS Latitude N.44°34.524', Longitude W.116°26.460';
GPS Latitude N.44°34.290', Longitude W.116°27.213'.

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	
14N 01W 3						2.0 L 4	25.0		14.0	17.0		20.0					78.0
14N 01W 4	30.0 L 1	10.0 L 2		5.0													45.0
15N 01W 33															1.0		1.0

Total Acres: 124

Method of Determination: Arc Map (Aerial Photo); Tax Lots

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>
0030784	U.S. Motors	100	Unknown	Unknown	10"
Unknown	Rockford	100	688696	Amarillo	266925 10"
N/A	Unknown	25	Unknown	Carnell	10"
N/A	Unknown	25	Unknown	Carnell	10"
N/A	Unknown	25	Unknown	Carnell	10"
N/A	Unknown	25	Unknown	Carnell	10"

*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>
N/A						

2. Measurements: No field measurement. Irrigation system not operating during the field exam. Surface water available from the Little Weiser Irrigation District and right holder's Water Right 67-7524. Right holder is not allowed, as stated in Condition No.2, to divert ground water when surface water is available.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 300/210 + (2.31 \times 40) = 1,848.0/302.4 = 6.1 \text{ cfs}$$

$$Q(\text{theoretical}) = 6.1 \text{ cfs} > 3.16 \text{ cfs } Q(\text{permit})$$

$$P = 40 \text{ psi (Assumed)}$$

$$HP = 300 (2 \times 100, 4 \times 25)$$

$$Z = 210 \text{ (Log Well Test Depth)}$$

Appears that the two (2) current well pumping systems and the four (4) booster pumps can attain the permit diversion rate of 3.16 cfs. However, it was determined that 124 acres is currently being irrigated, not 158 acres as designated on the permit. Therefore, recommend a diversion rate of 2.48 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 124 \times 4.0 = 496.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.48 \times 214 \times 1.9835 = 1,052.7 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 496.0 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

Two ground water wells, each with 100-HP pumps, divert water to two collection basins/sumps. The two collection basins/sumps each contain two (2) 26-HP centrifugal booster pumps. Water is pumped from the two collection basin/sumps to operate four (4) pivot irrigation systems for irrigation of approximately 124 acres of crop land.

The two ground water wells provide supplemental irrigation water for irrigation of the 124 acres of crop land. Surface water delivered by the Little Weiser Irrigation District and the right holder's water right 67-7524, provide the primary source of irrigation water for irrigation. The two ground water wells provide water for irrigation when surface water is not available, or when the surface water appropriation is inadequate to irrigate the crop land.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 67-8012 and Water Right Permit No. 67-8011 use the same two ground water wells to provide supplemental irrigation water.

Place of Use: The irrigable acres designated for Water Right Permit No. 67-8012 and the irrigable acres licensed under Water Right No. 67-7524 have overlapping places of use. Likewise, the place of use for the Little Weiser Irrigation District Water Rights 67-7878 and 67-2385 overlap the place of use for Water Right Permit No. 67-8012.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	3.16	&/or	N/A
Beneficial Use Limit	2.48	&/or	N/A
System Measurement	6.1 (theoretical)	&/or	N/A
Proof Fee Amount	4.0	&/or	N/A
Recommended Amount	2.48	&/or	N/A

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	4/01 to 10/31	2.48 CFS	496.0 AF
<u>Totals:</u>		2.48 CFS	496.0 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

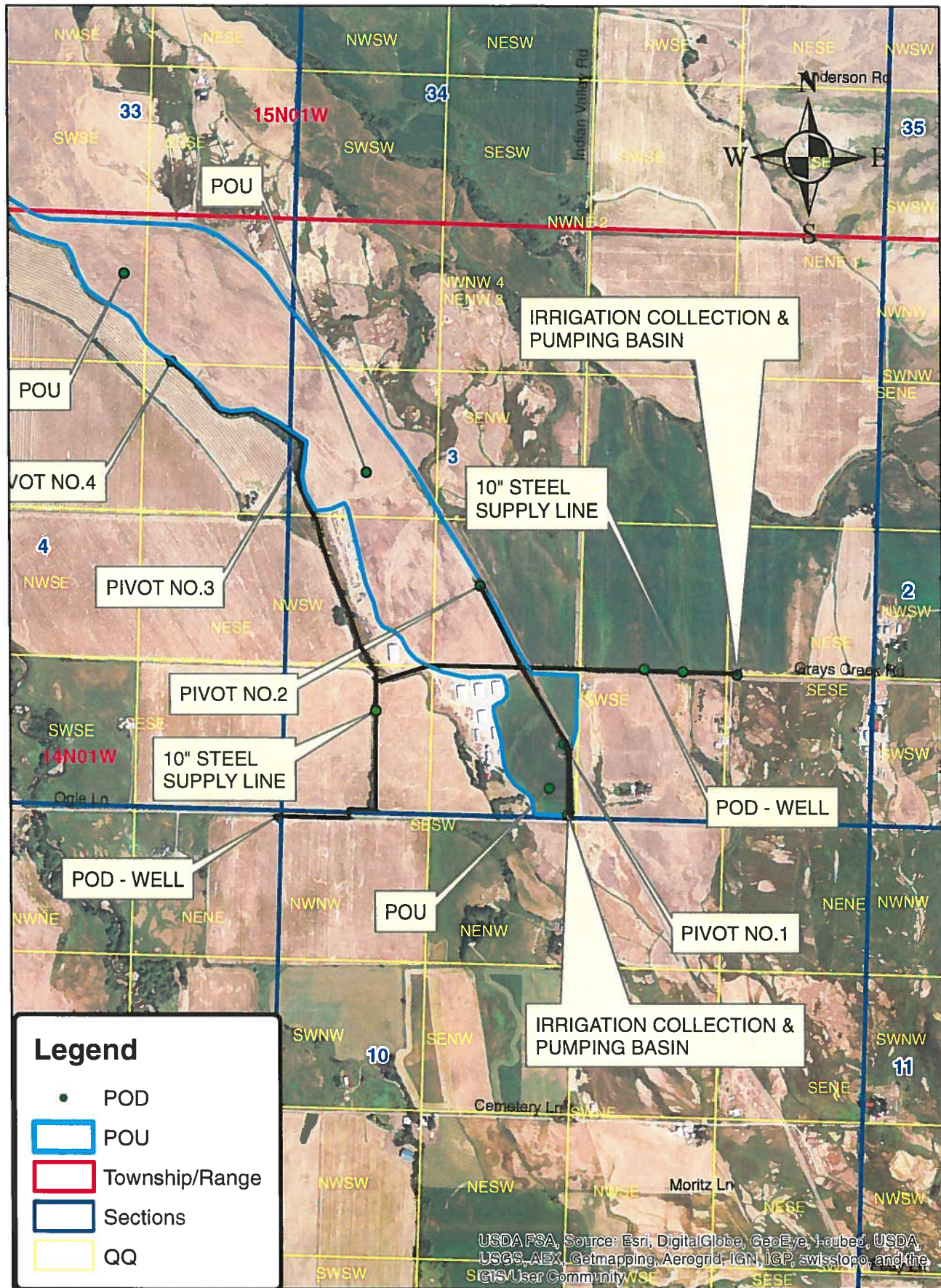
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 9/6/13

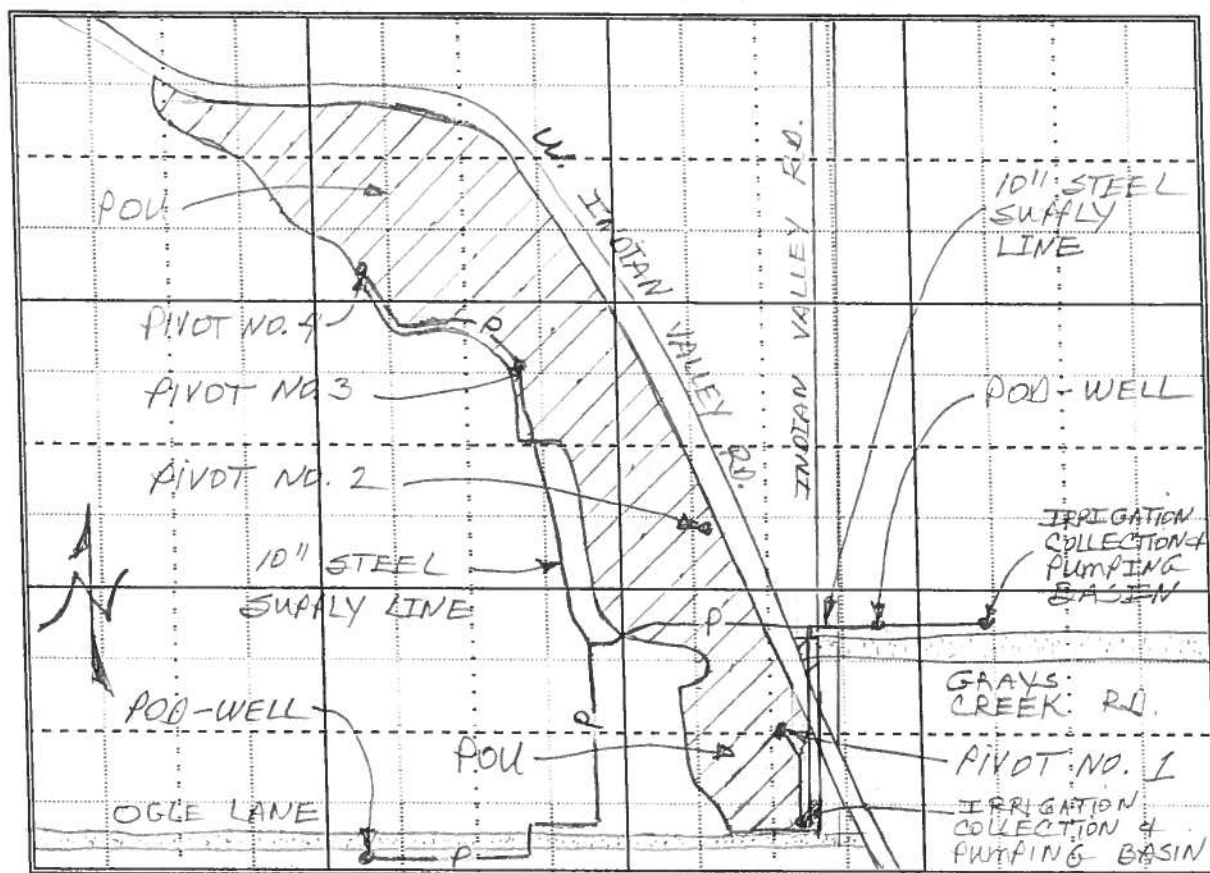
Reviewer _____ Date _____

67-8012
GOV'T. LOTS 1, 2, & 4

ESRI AERIAL PHOTO - 2011



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ 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

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0030784
DRILLING PERMIT NO. 881424-811536
Water Right or Injection Well No. 67-08011

2. OWNER:

Name Tom & Norma Grossen
Address P.O. Box 72
City Indian Valley State Id Zip 83632

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 14 North ☒ or South ☐
Rge. 1 East ☐ or West ☒
Sec. 3 1/4 NW 1/4 SE 1/4
Gov't Lot _____ County Adams

Lat. : : Long. : :
Address of Well Site East of Indian Valley Rd on Grays
Rd 18-14 mile City Indian Valley

Lt. _____ Blk. _____ 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 Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>6</u>	<u>70</u>	<u>45 SKS</u>	<u>pour & pull</u>
<u>Bentonite/clay</u>	<u>70</u>	<u>214</u>	<u>6 SKS</u>	<u>pour & slough</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 214Was drive shoe seal tested? ☒ Y ☐ N How? H2O

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>12.75</u>	<u>1.5</u>	<u>214</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

35 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

12. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>1000</u>	<u>N/A</u>	<u>210</u>	<u>1 hr</u>

Water Temp. 65± Bottom hole temp. 65±

Water Quality test or comments: _____

Depth first Water Encounter 26

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>20</u>	<u>0</u>	<u>1</u>	<u>Clay Soil</u>		☒
<u>20</u>	<u>1</u>	<u>9</u>	<u>Cemented Gravel</u>		☒
<u>20</u>	<u>9</u>	<u>12</u>	<u>Brown Sand/Clay Damp</u>	☒	
<u>20</u>	<u>12</u>	<u>22</u>	<u>Tan Clay</u>		☒
<u>20</u>	<u>22</u>	<u>26</u>	<u>Sandy Clay & Sand</u>	☒	
<u>20</u>	<u>26</u>	<u>33</u>	<u>Sand & loose Rocks</u>	☒	
<u>20</u>	<u>33</u>	<u>34</u>	<u>Clay</u>		☒
<u>20</u>	<u>34</u>	<u>50</u>	<u>Sand & Sandy Clay & Clay</u>	☒	
<u>20</u>	<u>50</u>	<u>58</u>	<u>Blue-purple Clay</u>		☒
<u>16</u>	<u>58</u>	<u>100</u>	<u>Blue Clay</u>		☒
<u>16</u>	<u>100</u>	<u>140</u>	<u>Brown Clay</u>		☒
<u>16</u>	<u>140</u>	<u>190</u>	<u>Blue-green Clay</u>		☒
<u>16</u>	<u>190</u>	<u>210</u>	<u>Blue Clay</u>		☒
<u>16</u>	<u>210</u>	<u>213</u>	<u>Gray Clay</u>		☒
<u>16</u>	<u>213</u>	<u>214</u>	<u>weathered Basalt</u>	☒	
<u>10</u>	<u>214</u>	<u>265</u>	<u>Hard Black Basalt</u>	<u>100±</u>	
<u>7.25</u>	<u>265</u>	<u>374</u>	<u>Hard Black Basalt</u>	<u>700±</u>	☒
	<u>374</u>	<u>386</u>	<u>Red Brown Lava</u>	<u>400±</u>	
<u>7.25</u>	<u>386</u>	<u>401</u>	<u>med Hard-Hard</u>		☒
	<u>401</u>	<u>407</u>	<u>med. Hard</u>	<u>?</u>	
	<u>407</u>	<u>461</u>	<u>Ext. Hard</u>		☒
<u>7.25</u>	<u>461</u>	<u>463</u>	<u>Fractured</u>	<u>100±</u>	
	<u>463</u>	<u>466</u>	<u>Hard Basalt</u>		☒
	<u>466</u>	<u>474</u>	<u>Fractured</u>	<u>400±</u>	
<u>7.25</u>	<u>474</u>	<u>515</u>	<u>Ext. Hard</u>		☒
<u>7.25</u>	<u>515</u>	<u>516</u>	<u>Brown Basalt</u>		☒
	<u>516</u>	<u>530</u>	<u>Ext. Hard</u>		☒
<u>7.25</u>	<u>530</u>	<u>531</u>	<u>Fractured</u>	<u>xx</u>	
	<u>531</u>	<u>545</u>	<u>Ext. Hard</u>		☒

MAR 25 2005

WATER RESOURCES
WESTERN REGION (not verifiable)Completed Depth 545
Date: Started 1-5-05 Completed 2-22-05

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Rob Dawson, inc Firm No. 589Principal Driller Rob Dawson Date 3-18-05and
Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.

Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

FIELD EXAM PHOTOS

Water Right Permit: 67-8012

Field Exam Date: 5-9-13

PLS: NW1/4, SE1/4 Section 3, T.14N, R.01W.

Field Examiner: RC



Point of Diversion: View southeasterly of the ground water well, 100-hp vertical turbine pump, and diesel motor located adjacent to Ogle Lane. Water is diverted through 10" steel supply pipe to irrigate approximately 124 acres.



View southwesterly of a section of the 10" steel supply line which conveys water to two pivot irrigation systems to the north. The 10" 'tee' assembly directs water to two pivot irrigation systems to the east near W. Indian Valley Road.



Point of Diversion: View southwesterly of the well and vertical turbine pump located near Grays Creek Road. The well discharges ground water to the 10" steel supply line which parallels Grays Creek Road. Water is diverted to a collection and pumping basin for discharging to the place of use to operate the 'Blue' and 'Yellow' pivot irrigation systems.



View northerly of a collection and pumping basin for surface water from the Little Weiser Irrigation District. Water is pumped through a 10" steel supply line to the north to operate the 'Blue' and 'Yellow' pivot systems. Well water is discharged to the collection and pumping basin when surface water is not available.



Place of Use: View northwesterly of Pivot Irrigation System No.3.



Place of Use: View northwesterly of Pivot Irrigation System No.4.



Place of Use: View southeasterly of Pivot Irrigation System No.2.



Place of Use: View southerly of Pivot Irrigation System No.1.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

April 10, 2013

Tom L. & Norma R. Grossen
P.O. Box 72
Indian Valley, ID 83632-0072

RE: Scheduling Field Exam for Water Right Permit No. 67-8012

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 6, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 3.16 cfs of ground water for irrigation of 158.0 acres.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by May 3, 2013, to conduct the exam during the week of May 6, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

April 10, 2013

Northwest Farm Credit Services, FLCA
308 SE 10th Street
Ontario, OR 97914

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Sincerely,

Rick Collingwood, P.E.
Water Resource Agent, Sr.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

September 9, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

TOMMY L GROSSEN and NORMA R GROSSEN
PO BOX 72
INDIAN VALLEY ID 83632-0072

RE: Water Right Permit Nos. 67-08011 & 67-08012

Dear Permit Holders:

The Department of Water Resources is reviewing the above referenced permits prior to issuing water right licenses. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permits. Changes that do not increase the authorized use of water under the permits can be requested and approved in accordance with Section 42-211, Idaho Code. Before licenses can be issued, your permits must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permits:

 Points of Diversion

The enclosed Application for Amendment forms depicts the elements of the water rights as they will appear on the licenses when issued. Please review the amendment forms carefully. If you concur with the information presented, please sign the forms and return them with \$100.00 filing fee for each amendment, within 14 days.

If you have any questions, please call me at (208)334-2190.

Sincerely,



KAY WALKER
Sr. Water Resource Agent

Enclosures: Amendment Applications & Layouts

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 67-08012

Date of Priority: February 10, 1998

Maximum Diversion Rate: 2.48 CFS

Maximum Diversion Volume:

Comes now TOMMY L GROSSEN And NORMA R GROSSEN
PO BOX 72

INDIAN VALLEY ID 83632-0072 and represents to the Director of the Idaho
Department of Water Resources that he is the owner and holder of Permit to appropriate the Public
Waters of the State of Idaho No. 67-08012, and requests that the permit be changed as follows:

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
IRRIGATION	03/15 to 10/31	2.48 CFS

LOCATION OF POINTS OF DIVERSION:

GROUND WATER NW1/4SE1/4 Sec. 3, Twp 14N, Rge 01W, B.M., ADAMS County
GROUND WATER NE1/4NE1/4 Sec. 9, Twp 14N, Rge 01W, B.M., ADAMS County

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	
14N 01W 3						2.0	25.0		14.0	17.0		20.0					78.0
						L 4											
14N 01W 4	30.0	10.0		5.0													45.0
	L 1	L 2															
15N 01W 33															1.0		1.0

Total Acres: 124

Permit holder asserts that no one will be injured by such change and that such change will be made at permit holder's own risk. Signed this _____ day of _____, 2013.

(Signature)

(Signature)

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 67-08012

FOR DEPARTMENT USE ONLY

Preliminary check by _____ Fee = _____ Receipted by _____ # _____ Date _____

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, JOHN WESTRA, of the Department of Water Resources hereby approve the
above Application for Amendment for Permit No. 67-08012 with the following:

CONDITIONS OF APPROVAL

1. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 496.0 af at the field headgate for the place of use.
2. The right holder shall use the full allotment of appurtenant surface water rights in conjunction with groundwater diverted under this right and shall only divert groundwater under this right when water from the appurtenant surface water rights cannot be delivered to the right holder.
3. If the surface water right(s) appurtenant to the place of use is abandoned, forfeited, sold, transferred, leased or used on any other place of use, this right to divert ground water shall not be used without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.
4. This right when combined with all other rights shall provide no more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
5. The following rights are diverted through points of diversion described above: 67-8011 & 67-8012.
6. The issuance of this right does not grant any right-of-way or easement across the land of another.
7. After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.
8. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

Witness my hand this _____ day of _____, 2013.

JOHN WESTRA
Western Regional Manager

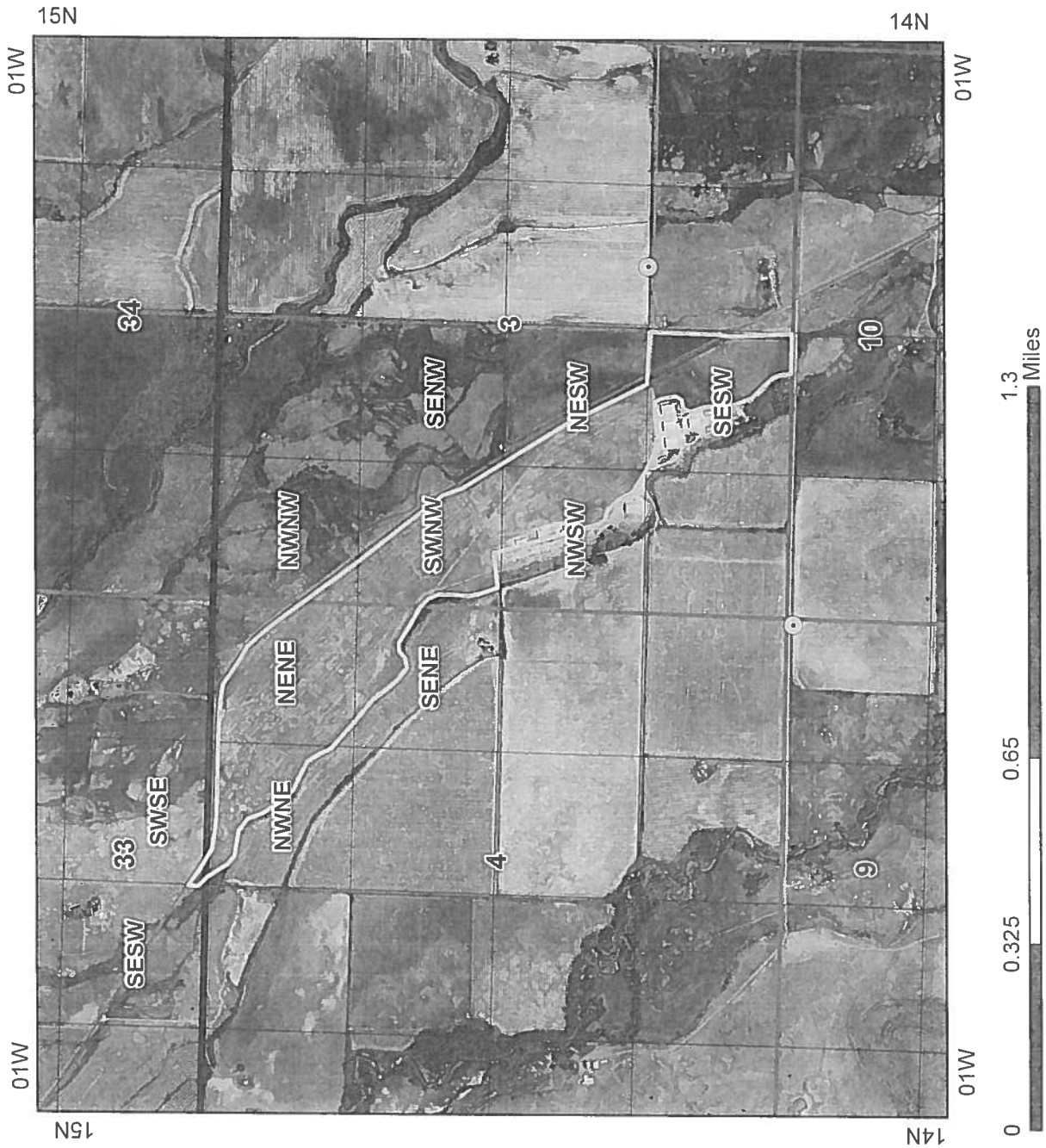


Idaho Department of Water Resources

Water Right
67-8012
(IRRIGATION)

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters

*For your information -
do not
return.*



ADAMS COUNTY
IDWR Basin 67

Prepared by Walker, Kay

2009 Aerial Photography