

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13815
Exam Date: 08/06/2019

1. Current Owner:
JOHN L ROST 14073 MORELL RD MCCALL ID 83638
2. Accompanied by: John Rost
Phone No: 208-630-3611
Address: Same as above
Relationship to permit Holder: Same

3. **SOURCE:**
GROUND WATER

Method of Determination: Field Observation

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
65-3119	Boulder Creek	Irrigation	Decreed
65-5073	Boulder Creek	Irrigation	Decreed

Comments: Neither rights are owned by applicant,

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A	N/A	N/A	N/A

Comments: N/A

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼ SE¼, Sec. 25, Twp 18N, Rge 03E, B.M. VALLEY County

Method of Determination: Handheld Garmin GPS

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18N	03E	25													1.3				1.3

Total Acres: 1.3

Method of Determination: Field observation, aerial imagery, and ArcMap GIS tools.

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18N	03E	25													X				

Method of Determination: Field observation, aerial imagery, and ArcMap GIS tools.

3.

 x Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

 x Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

 x Aerial Photo Attached (required for irrigation of 10+ acres).

 x 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
N/A	N/A	N/A	N/A	N/A	N/A

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: N/A

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: Rain Bird 2045 PJ Impact Sprinkler Specs Chart to estimate flow:

Permit holder runs 6 sprinklers max at any given time @ average 45 PSI with 1/8" nozzle

Flow = (3.70 gpm/sprinkler) x 6 sprinklers = 22.2 gpm = 0.049 cfs → **0.05 cfs**

Permit Rate	0.11 cfs
B.U. Standard Allowance	0.04 cfs
Proof Fee (\$50.00)	0-0.20 cfs
Calculated Rate	0.05 cfs
Recommended Rate	0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (1.3 \text{ acres}) \times (3.0 \text{ af}) = 3.9 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.05 \text{ cfs}) \times (200 \text{ days}) \times 1.9835 = 19.8 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 3.9 \text{ af}$$

2. Volume Calculations for Other Uses: Domestic

0.6 afa/household when irrigation is separated (as per apps memo 22 'Definition of "Domestic")

G. NARRATIVE/REMARKS/COMMENTS

Field exam was conducted on August 6, 2019 by agent Justin Shearer. He was accompanied by permit holder John Rost. Ownership of the permit is in the name of John L Rost (permit holder). Current Valley County taxlot data represents that the permit holder owns the land pertinent to the Place of Use (POU) and Point of Diversion (POD) in the NE¼ SE¼.

Ground water comes from an unidentifiable well. The well serves the house for domestic purposes, as well as delivers water to a sprinkler irrigation system. At the time of the exam ¾" black polyline delivers water to 36 Rainbird impact sprinklers on risers to irrigate 1.3 acres. During the exam the permit holder informed me that at any given time he runs 6 sprinklers max at once. Flow was estimated using Rain Bird specs for the sprinkler heads in place. Review of 2004 aerial imagery shows that 1.3 acres was developed during the beneficial use period and the amount of area irrigated has remained the same until present.

Overlap review found that there are two overlapping surface water irrigation rights, however they are still in the name of Jay and Berneice Morell. The permit holder should be advised to apply for a change of ownership on their respective portions of water rights 65-3119 and 65-5073. POD analysis found that no overlap exists. At the time of the exam, the sprinkler system demonstrated that it was capable of irrigating 1.3 acres encompassing the permit holders yard, and adjacent tree farm. As a result, I am recommending a license for 0.08 cfs and 4.5 af; 0.04 cfs/3.9 af for irrigation purposes and an additional 0.04 cfs/0.6 af for domestic purposes

Conditions 046 and 26A were removed as per licensing standards. Condition 120 updated to 103. Condition 101 and 100 removed; updated to 943. Condition WB7 added. Condition R58 added and R62 removed.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	4/15 to 10/15	0.04 CFS	3.9 AF
DOMESTIC	1/01 to 12/31	0.04 CFS	0.6 AF

Totals: 0.08 CFS 4.5 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

Justin Shearer - Water Resource Agent, Senior

Field Examiner's Name Justin Shearer Date 10/24/19

Reviewer Patricia Wiley Date 10-24-2019



2045-PJ

1/2" 13mm Full or Part Circle, Plastic Impact Sprinkler

- Durable Delrin™ plastic, body arm, bearing sleeve, nipple and break up pin
- Stainless steel springs and fulcrum pin
- Chemically resistant washers

Features

- Plastic Quick Fit Nozzles
- Low Angle (10°) Nozzles available
- Integral straightening vane for greater distance
- Full or Part Circle operation

Benefits

- Superior chemical and grit resistance
- Smooth rotation at lower pressures
- Design flexibility
- Built to last
- Two-year Customer Satisfaction Policy

Specifications

- Bearing: 1/2" (13mm) Male NPT, Plastic
- Trajectory Angle: Standard 23°
Low Angle 10° available.
- Operating Range: 25-60 psi (1.7-4.1 bar)
- Flow Rate: 1.5-8.4 gpm (0.34-1.91 m³/h)
- Radius: 22-45 ft. (6.7-13.7 meters)
- Nozzle: QuickFit Nozzle Port

Plastic Quick-Fit (PQFN) Performance*						
psi@ Nozzle	NOZZLE SIZE (Stream Height: 6 ft.)					
	3/32" Red	7/64" Black	1/8" Blue	5/32" Yellow	3/16" Beige	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
25	-	-	32	2.20	35	2.80
35	37	2.00	37	2.70	38	3.30
45	38	2.30	39	3.00	40	3.70
55	38	2.50	41	3.30	41	4.10
60	38	2.60	41	3.50	42	4.20

*Shipped Assembled with a 1/8" (08) Straight Bore Nozzle.

Low Angle Nozzle (PQLAN)				
psi@ Nozzle	NOZZLE SIZE (Stream Height: 3 ft.)			
	7/64" Black	5/32" Yellow		
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
25	22	1.5	25	3.4
35	23	1.9	29	4.0
45	25	2.1	31	4.0
55	25	2.3	32	5.0
60	25	2.4	32	5.4

Plastic Quick-Fit (PQFN) Performance* METRIC												
bar @ Nozzle	NOZZLE SIZE (Stream Height: 1.8m)											
	2.38 mm (3/32") Red			2.78 mm (7/64") Black			3.18 mm (1/8") Blue			3.97 mm (5/32") Yellow		
	Rad. (m)	Flow (l/s)	Flow (m³/h)	Rad. (m)	Flow (l/s)	Flow (m³/h)	Rad. (m)	Flow (l/s)	Flow (m³/h)	Rad. (m)	Flow (l/s)	Flow (m³/h)
1.7	-	-	-	9.8	0.14	0.5	10.7	0.18	0.64	11.6	0.26	0.95
2.0	-	-	-	10.4	0.15	0.55	11.0	0.19	0.68	11.9	0.28	1.01
2.5	11.3	0.13	0.46	11.4	0.17	0.62	11.7	0.21	0.76	12.5	0.31	1.11
3.0	11.5	0.14	0.51	11.8	0.19	0.67	12.1	0.23	0.83	12.8	0.34	1.21
3.5	11.6	0.15	0.55	12.2	0.20	0.72	12.4	0.25	0.89	13.0	0.36	1.30
4.0	11.6	0.16	0.58	12.5	0.22	0.78	12.7	0.26	0.94	13.3	0.39	1.42
4.1	11.6	0.16	0.59	12.5	0.22	0.79	12.8	0.26	0.95	13.4	0.40	1.45

Low Angle Nozzle (PQLAN) METRIC						
bar @ Nozzle	NOZZLE SIZE (Stream Height: 0.9m)					
	2.78 mm (7/64") Black			3.97 mm (5/32") Yellow		
	Rad. (m)	Flow (l/s)	Flow (m³/h)	Rad. (m)	Flow (l/s)	Flow (m³/h)
1.7	6.7	0.09	0.34	7.06	0.21	0.77
2.0	6.8	0.10	0.38	8.1	0.23	0.83
2.5	7.1	0.12	0.44	8.9	0.26	0.92
3.0	7.5	0.13	0.47	9.4	0.28	1.01
3.5	7.6	0.14	0.50	9.6	0.30	1.09
4.0	7.6	0.15	0.54	9.8	0.33	1.19
4.1	7.6	0.15	0.54	9.8	0.34	1.23



Part Numbers and Ordering Information

Assembled Sprinkler/Nozzle Factory Combination	
Sprinkler with Nozzle	2045-PJ-AG
	B4610008

The assembled sprinkler comes with a blue 1/8" nozzle. Other nozzles are available on request at no charge.

Nozzle Only			XX = Nozzle Size				
U.S. Standard			3/32"	7/64"	1/8"	5/32"	3/16"
Metric			2.38 mm	2.78 mm	3.18 mm	3.97 mm	4.76 mm
Plastic Quick-Fit Straight Bore Nozzle	PQFN	206592-XX	06	07	08	10	12
Low Angle Quick-Fit Nozzle	PQLAN	115902-XX	-	07	-	10	-

Bold nozzle size number denotes the most common nozzle choice.

The Intelligent Use of Water.™

SWNE

SENE

NWSE

25

112 ft

18N13E

POD

NESE

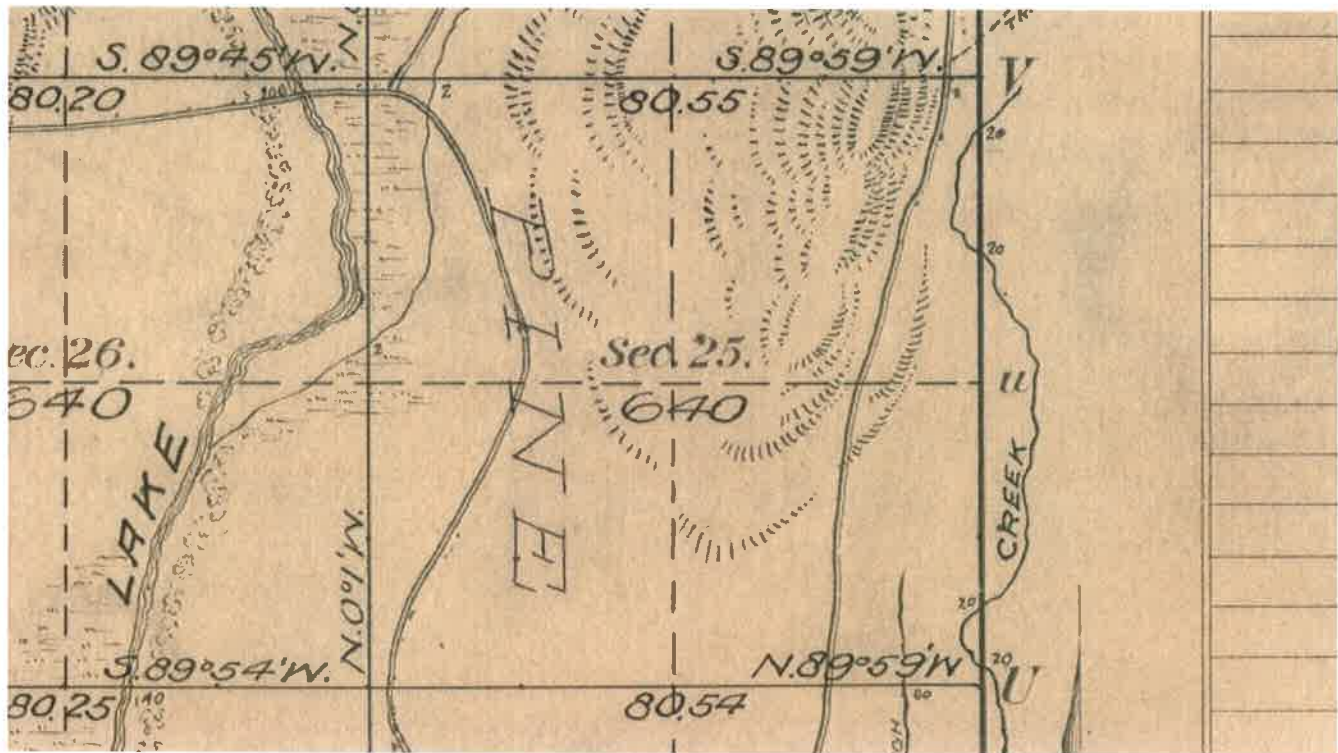
60.156 ft

Kenny-Ross Trust

SWSE

SESE





T18N R03E Sec. 25



Pic of well/POD.
No well tag present
on casing.



Pic of Domestic
POU.



Pic of rows of trees,
part of tree farm.
POU looking north.



Another pic
showing tree farm
with sprinkler riser
in the foreground.
Looking north.



Pic of garden and irrigated turf grass. Part of POU looking to the east.



Pic showing Rain Bird sprinkler, riser, and 3/4" polyline. Part of irrigation system for tree farm.



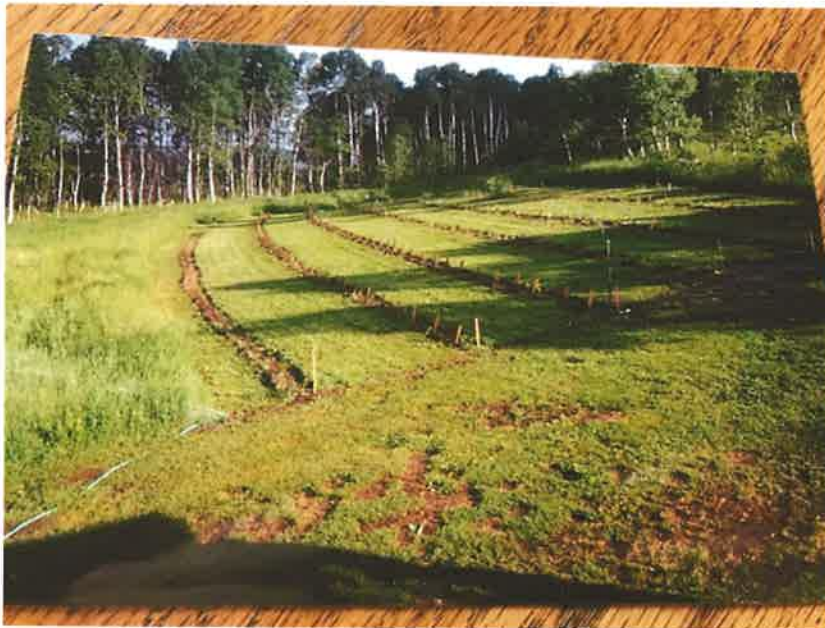
Pic showing black 3/4" polyline system t-ing off and sprinkler riser coming up out of polyline.



Pic of Rain Bird 2045 PJ plastic impact sprinkler.



Another pic of one of the Rain Bird Sprinkler heads showing that they are equipped with blue 1/8" nozzles.



Pic of tree farm being irrigated during BU development period. Circa 1999-2000.



Another pic of tree farm rows during BU development period. Circa 1999-2000.



Pic showing irrigated POU with sprinkler risers in foreground. Circa 1999-2000.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 W Airport Way • Boise ID 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348

Website: idwr.idaho.gov • Email: westerninfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

July 25, 2019

JOHN L ROST
14073 MORELL RD
MCCALL ID 83638

COPY

RE: Water Appropriation Permit 65-13815

Notice of Intent to Void Permit

Dear Permit Holder:

In 1998 IDWR issued permit 65-13815 authorizing John L Rost to develop a right to divert 0.15 cfs of water from GROUNDWATER within the NE¼ SE¼ of Section 25, Township 18 North, Range 03 East, B.M., for IRRIGATION & DOMESTIC purposes in VALLEY County. Under the terms of the permit, the development was to have been completed by April 1, 2004. On March 29, 2004, IDWR received a Proof of Beneficial Use statement indicating development had been completed and water had been put to beneficial use. On April 29, 2019, and June 14, 2019, IDWR mailed letters to contact you in order to schedule a field examination to verify the water use in order to issue a water right license, to which no response has been received to date.

The final step in the water appropriation process is the issuance of a Water Right License. By issuing a license, IDWR recognizes that you have met the requirements for establishing a water right. If you have not developed a beneficial use of water within the development period authorized by your permit, however, no water right has been established, and no license can be issued. Once the development period authorized by your permit expires, your permit cannot be retained to cover future development of the resource.

If you believe a water right license should be issued to you, please contact me within the next thirty (30) days at (208) 334-2190 schedule an examination to demonstrate that you have developed beneficial use. If I do not receive the requested information from you within thirty days, I will take action to void your permit under the provision of Section 42-219(8) of the Idaho Code. If you agree that no beneficial use of water occurred under permit 65-12740, you can shorten the voiding process by completing the enclosed relinquishment form and returning it to IDWR.

If you have any questions, please contact me at 208-334-2190.

Respectfully,

Justin Shearer
Water Resource Agent, Sr.

Enclosure: Relinquishment of Permit



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 W Airport Way • Boise ID 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348

Website: idwr.idaho.gov • Email: westerninfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

June 14, 2019

JOHN L ROST
PO BOX 1483
FAIRPLAY CO 80440

COPY

RE: Scheduling Field Exam for Water Right Permit No. 65-13815

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.150 cfs** from **GROUNDWATER** for **IRRIGATION & DOMESTIC** uses. **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 during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

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 at (208) 334-2190 to either schedule an examination or submit a relinquishment or assignment form. 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.

Sincerely,

Justin Shearer
Water Resource Agent, Sr.

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



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 W Airport Way • Boise ID 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348

Website: idwr.idaho.gov • Email: westerninfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

April 29, 2019

JOHN L ROST
14073 MORELL RD
MCCALL ID 83638

COPY

RE: Scheduling Field Exam for Water Right Permit No. 65-13815

Dear Permit Holder:

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Sincerely,



Justin Shearer

Water Resource Agent, Sr.

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