

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 94-8860

Exam Date: 7/29/2015

1. Current Owner: ROY FALER
159 MARMON RD
KINGSTON ID 83839
(208) 682-2711
2. Accompanied by: Roy Faler

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

GROUND WATER SE1/4NE1/4 Sec. 25, Twp 50N, Rge 03E, B.M. SHOSHONE County

Method of Determination: GPS and maps and google earth. POD location at 47° 39.148, 116° 00.759

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
50N 03E 25													11.8	2.0		3.8	17.6

Total Acres: 17.6

Method of Determination:

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</u> <u>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</u> <u>Size</u>
		7 HP			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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N/A

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT BECAUSE APPLICANT WAS NOT IRRIGATING AT TIME OF EXAM. APPLICANT HAD 11/64 HEADS ON IRRIGATION PIPE THAT RAN 6 GPM AT 50 PSI AND HE ONLY RAN 10 -15 SECTIONS OF PIPE AT ONE TIME. 15 HEADS X 6 GPM = 90 GPM OR 0.20 CFS

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

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 17.6 \text{ AC} \times 3 \text{ AF} = 52.8 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.2 \times 214 \times 1.9835 = 84.9 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 52.8 \text{ AF}$$

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

FIELD EXAM SHOWED THAT APPLICANT WAS NOT IRRIGATING AT TIME OF EXAM. APPLICANT HAD 7 HP PUMP IN HAND DUG 18 FOOT WELL. APPLICANT HAD 11/64 HEADS ON IRRIGATION PIPE THAT RUN AT 50 PSI AND PRODUCE 6 GPM. APPLICANT SAID HE WOULD RUN ANYWHERE FROM 10 - 15 LENGTHS OF PIPE AT ONE TIME WITH 1 HEAD PER LENGTH OF PIPE. 15 SPRINKLER HEADS AT 6 GPM IS EQUAL TO 90 GPM OR 0.20 CFS. APPLICANT SAID HIS MAIN REASON FOR APPLYING FOR WATER RIGHTS WAS TO USE THE IRRIGATION TO HELP OUT WHEN HE RE SEEDS HIS FIELDS EVERY YEAR OR TWO. HE WAS NOT IRRIGATING AT TIME OF EXAM BECAUSE HE HAD ALREADY ESTABLISHED HIS FIELD AND WERE BEING GRAZED ON NOW. LICENSE WILL BE ISSUED FOR 0.20 CFS FOR THE IRRIGATION OF 17.6 ACRES.

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	04/01 to 10/31	0.200 CFS	52.80 AF
<u>Totals:</u>		0.200 CFS	52.80 AF

2. Recommended Amendments

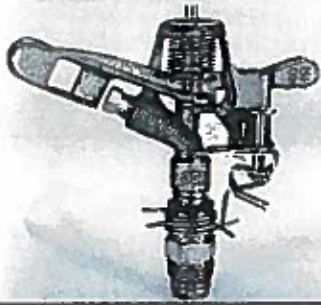
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam Funderil Date 1-26-16

Reviewer [Signature] Date 1-29-16



PERFORMANCE DATA

35A-TNT/35A-PJ

35A-TNT 35A-PJ

**3/4" Full or Part Circle,
Brass Impact Sprinklers**

Bearing: 3/4" Male NPT, Brass
Trajectory Angle: 27°
Operating Range: 30-60 psi
Flow Rate: 3.9-7.8 GPM
Radius: 42-51 ft.

FEATURES

- "Precision jet" (PJ) arm (35A-PJ)
- Standard spoon style arm also available (35A-TNT)
- Stainless steel springs and fulcrum pin
- Chemically resistant washers
- ADJ-3 Nozzles include integral break-up pin
- DAN-3 Nozzles include break-up pin and distance flap
- Full or Part Circle operation
- Two-year warranty

BENEFITS

- PJ arm reduces side splash
- Many options provide design and application flexibility
- Corrosion and grit resistant
- Built to last

**Brass Straight Bore Nozzle
(ADJN-3) or (DAN-3) (Stream Height: 9 ft.)**

PSI @ Nozzle	NOZZLE SIZE					
	5/32"		11/64"		3/16"	
	Rad.	GPM	Rad.	GPM	Rad.	GPM
30	42	3.90	43	4.60	44	5.50
35	43	4.20	44	5.00	46	6.00
40	44	4.50	45	5.40	47	6.40
45	44	4.70	46	5.70	48	6.80
50	45	5.00	47	6.00	49	7.20
55	45	5.20	48	6.30	50	7.50
60	46	5.40	48	6.60	51	7.80

PART NUMBERS AND ORDERING INFORMATION

Ordering Example	MAKE YOUR SPRINKLER CHOICE FROM CHART 1	CHOOSE NOZZLE SIZE(S) FROM CHART 2	ADD THEM TOGETHER TO CREATE THE PART NUMBER
To order a 35A-TNT sprinkler with a 3/16" Brass Straight Bore Adjustable Nozzle the part number would be:	A38820-	12	= A38820-12

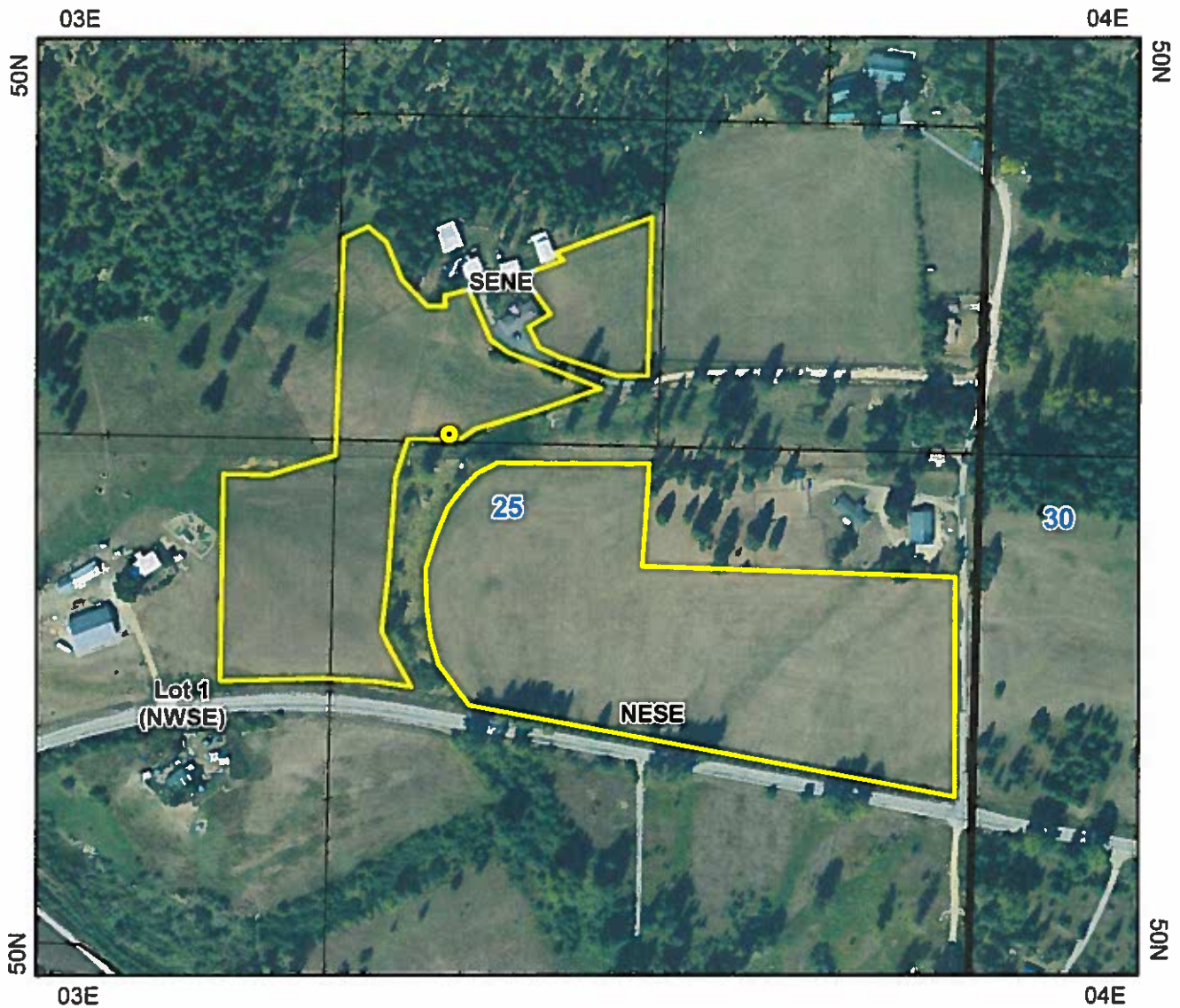
Chart 1: 35A-TNT	PART NUMBER: FIRST HALF
SPRINKLER ONLY	
Sprinkler without Nozzle	A39200
SPRINKLER WITH SINGLE NOZZLE INSTALLED	
Sprinkler with ADJN-3	A38820-
Sprinkler with KHN-3	A38810-

Chart 2	PART NUMBER: SECOND HALF		
NOZZLE	5/32"	11/64"	3/16"
Brass Straight Bore Adjustable Nozzle (100328-) ADJN-3	10	11	12
Brass Adjustable Do-All Nozzle (100332-) DAN-3	10	-	12
Brass Keyhole Nozzle (106353-) KHN-3	10	11	12

Bold nozzle size numbers denote the most common nozzle choices.

Chart 1: 35A-PJ	PART NUMBER: FIRST HALF
SPRINKLER WITH NOZZLE INSTALLED	
Sprinkler with ADJN-3	A40613-
Sprinkler with DAN-3	A40614-

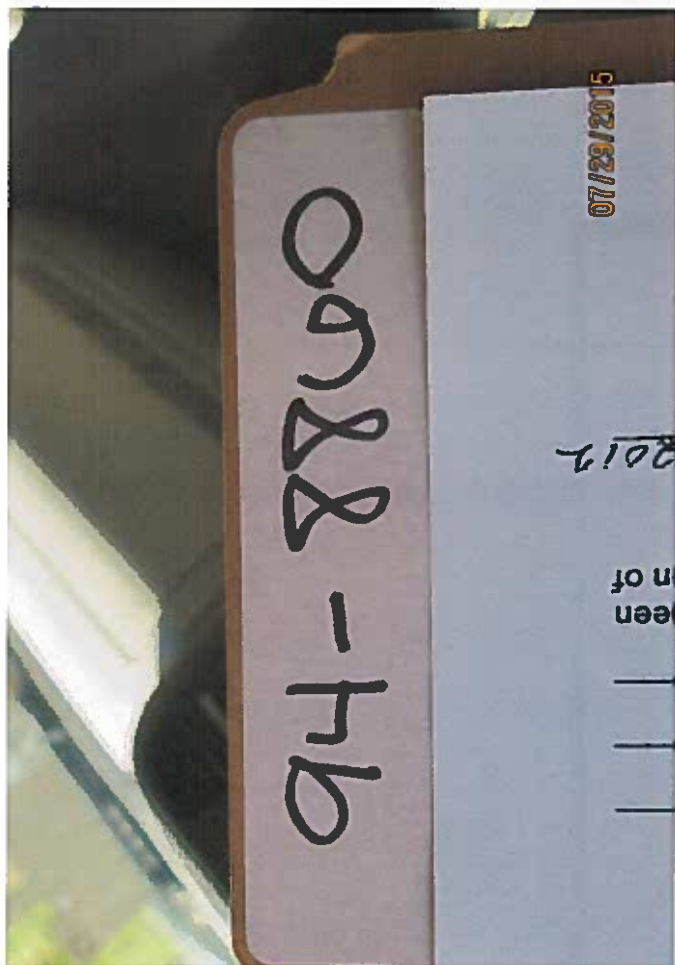
State of Idaho
Department of Water Resources
Water Right License
94-8860



0 0.0425 0.085 0.17 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections





94-8860



94-8860



94-8867

