

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-15126
Exam Date: 08/28/2020

1. Current Owner:
MIDVALE 220 LLC PO BOX 9200 KETCHUM ID 83340
2. Accompanied by: Elvin Issac (via phone)
Phone No: 208-739-3642
Address: 3243 Farm to Market Rd, Midvale, ID
Relationship to permit Holder: Leases field from permit holder

3. SOURCE:
GROUND WATER

Method of Determination: Well logs, site visit

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: No overlap present.

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

Water Right No.	Source	Purpose of Use	Basis
67-15088	Groundwater	Irrigation	License

Comments: 67-15088 and this permit divert water through the same well, pivot and solid set sprinkler system.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER NE¼ NW¼, Sec. 8, Twp 12N, Rge 02W, B.M. WASHINGTON County

Method of Determination: GPS located well at 44°23'44" N, 116°36'17" W during site visit.

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	
12N	02W	8		5.0	3.0		7.0												15.0

Total Acres: 15.0

Method of Determination: Aerial imagery, digital PLSS map, site visit.

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
D0064495	Unknown - submersible	75	Unknown	Robbco	10" discharge

D. FLOW MEASUREMENTS

1.

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: No measurements were taken during this exam.

E. FLOW CALCULATIONS☒

Additional Computation Sheets Attached

Measured Method: Theoretical HP Equation

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}} = \frac{8.8 * 0.7 * 75}{118 * 2.31 * 60} = 1.80 \text{ cfs}$$

Measure Method: Sprinkler Ratings

sprinkler lines @ 1 time = 4 lines

of sprinkler heads = Average of 8.5 sprinkler per line * 4 lines = 34 heads

Range of nozzle = 5.0 gpm @ 45 psi

Sprinkler diversion rate = # heads * gpm = 34 heads * 5.0 gpm = 170 gpm = **0.38 cfs**

Permit	0.34 cfs
B.U. Standard	0.30 cfs
B.U. Fee Paid	\$100 → 0.21 to 1.00 cfs
Theoretical HP	1.80 cfs
Sprinkler System	0.38 cfs

License Recommendation 0.30 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 15 \text{ acres} \times 4 \text{ af/acre} = 60 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.3 \text{ cfs} \times 231 \text{ days} \times 1.9835 = 137 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 60 \text{ af}$$

2. Volume Calculations for Other Uses: N/a

G. NARRATIVE/REMARKS/COMMENTS

This permit authorizes 0.34 cfs of groundwater for irrigation of 17 acres within Washington County. The application for permit was originally filed by Steven Ryals on November 7, 2014, but the permit was assigned to Midvale 220 LLC on March 2, 2015. Midvale 220 LLC filed proof of B.U. on May 18, 2020 and the field exam was conducted on August 28, 2020 by WRA Tyler Smith.

The point of diversion is a 10" diameter, 418 ft deep well ID D0064495 with a 75-hp submersible pump. A 10" discharge line from the well goes to a buried 8" line to a pivot and a buried 6" line to solid set sprinklers. The pivot is a 7 TWR ZIMMATIC 9500 FC, and only the end gun coverage is used to irrigate the NE and SE corners of the place of use. The end gun has an estimated coverage of 100 ft according to the system operator. The solid set sprinklers are Hunter PGP Ultra and cover irrigation in the NW portion of the place of use that cannot be reached by the pivot end gun. There are 7 lines of sprinklers, with 4 lines able to be used at one time. The amount of sprinklers per line varies and decreases from the west most line, with 12 heads, to east most line, with 5 heads. Either the pivot or the sprinklers are operated at one time, and are not operated simultaneously. Water right 67-15088 is also diverted through the same well and delivery system and has a diversion rate of 2.00 cfs. The 2.00 cfs for 67-15088 and 0.30 cfs for this right when combined may exceed the theoretical system capacity of 1.80 cfs. Therefore, a combined limit for the diversion rate of 2.00 cfs is recommended.

The permit authorized 17 acres of irrigation, however, aerial imagery and GIS shapefiles showed that only 15 acres of irrigation had been developed during the development period. The diversion system is capable of diverting the full beneficial standard for 15 acres. The right was permitted at 0.02 cfs per acre, and therefore a diversion rate of 0.30 cfs is recommended for licensing. There is no overlap at the place of use.

Have conditions of permit approval been met? X 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	03/15 to 10/31	0.30 CFS	60.0 AF

Totals: 0.30 CFS 60.0 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

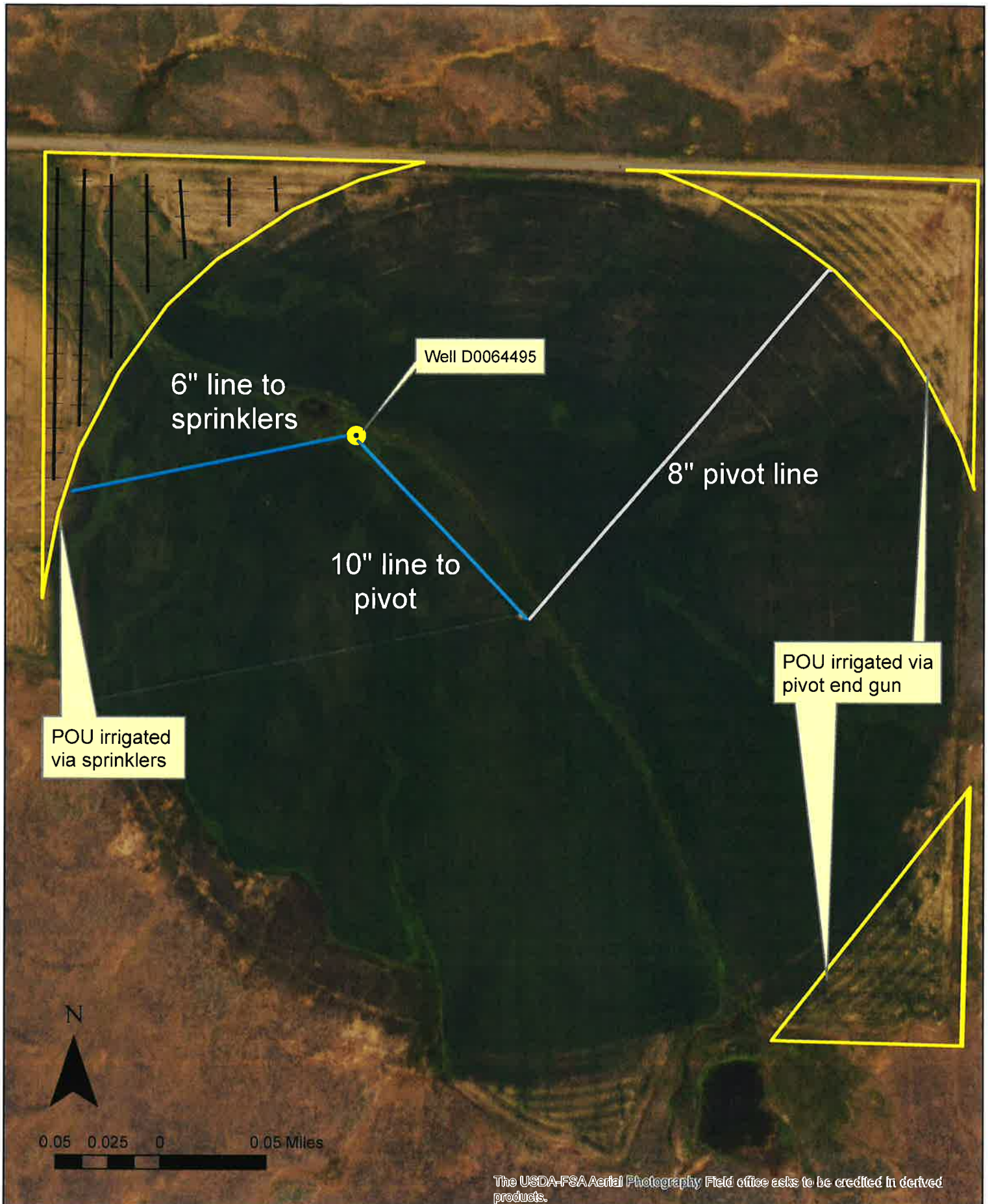
I. AUTHENTICATION

Tyler Smith - Water Resource Agent

Field Examiner's Name Tyler Smith Date 9/24/2020

Reviewer Patricia Kelly Date 9-24-2020

Delivery System Diagram 67-15126



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 67-15126
 Reviewer: Tyler Smith
 Date of Review: 9/24/2020

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	75	75	75
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	118	118	118
DISCHARGE PRESSURE	55	60	65
RATE OF FLOW (cfs)	1.89	1.80	1.72 1.80

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:

Field exam reports a 75 hp pump for irrigation use. Lift is recorded at 118 ft. A range of discharge pressures were used base on expected system pressures (55-65 psi). Theoretical average flow rate is 1.80 cfs.

WISHNW-27599

AGRI LINES IRRIGATION

MARCH 13, 2014

CUSTOMER : STEVE RYALS

P.O. NO.
JOB NO.
LEGAL
CROP

34458
7 TWR ZIMMATIC 9500 FC

WISHNW-27599

2014 LINDSAY 9500 - 90
7 TOWER - 1102.47 FT
SYSTEM 800 GPM @ 45 PSI

NELSON R3000 ROTATORS
NELSON 15 & 20 PSI REGULATORS
NELSON SR-100 .75 TB
ELEVATION 0 FT UP, 0 FT DOWN

115 NORTH SECOND

PARMA, IDAHO 83660

(208) 722-5121

Company:
Name:
Date: 12/17/2013



Pump:

Size: 9CLE (2 stage)
Type: SUBMERSIBLE
Synch speed: 3600 rpm
Curve:
Specific Speeds:
Dimensions:
Vertical Turbine:
Speed: 3450 rpm
Dia: 6.38 in
Impeller:
Ns: 2282
Nss: —
Suction: 6 in
Discharge: —
Bowl size: 9.25 in
Max lateral: 0.88 in
Thrust K factor: 4.9 lb/ft

Search Criteria:

Flow: 800 US gpm Head: 220 ft

Fluid:

Water
SG: 1
Viscosity: 1.105 cP
NPSHa: —
Temperature: 60 °F
Vapor pressure: 0.2563 psi a
Atm pressure: 14.7 psi a

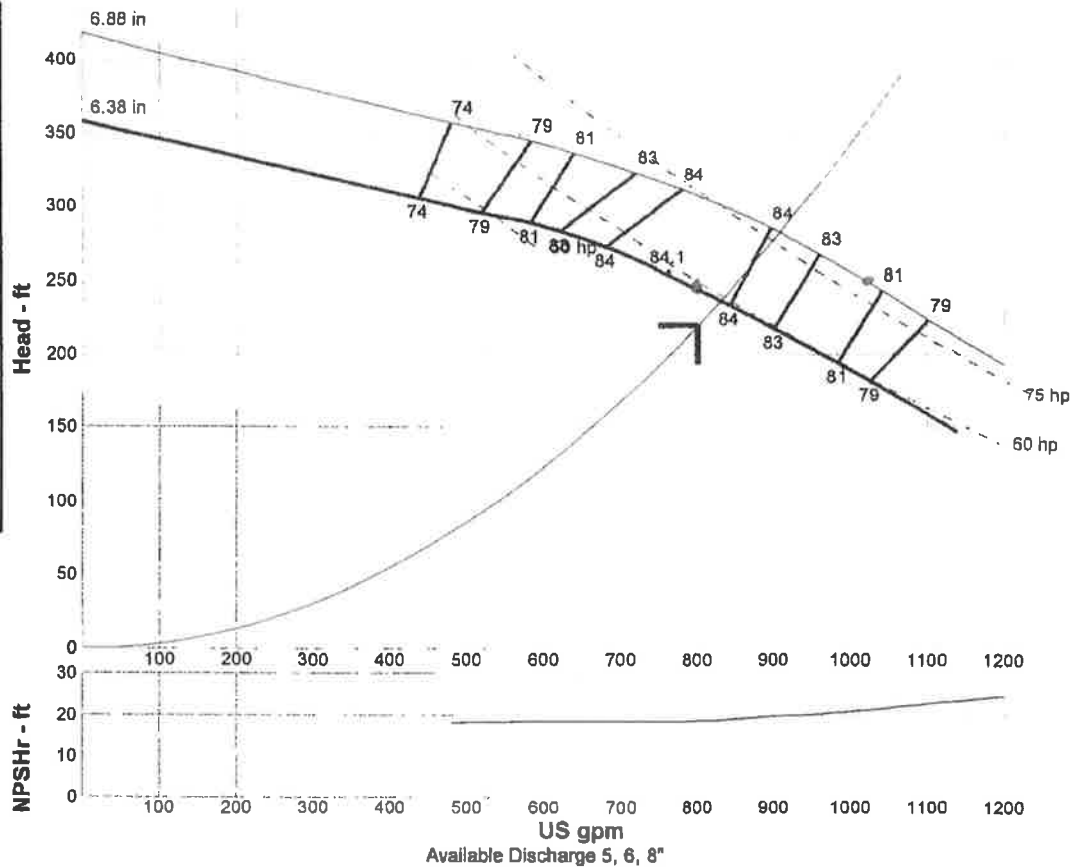
Motor:

Standard: NEMA
Enclosure: SUB
Sizing criteria: Max Power on Design Curve
Size: 60 hp
Speed: 3600
Frame: 6 Inch

Pump Limits:

Temperature: 120 °F
Pressure: 400 psi g
Sphere size: 0.56 in
Power: —
Eye area: —

Data Point	
Flow:	800 US gpm
Head:	245 ft
Eff:	84%
Power:	58.7 hp
NPSHr:	18.7 ft
Design Curve	
Shutoff head:	358 ft
Shutoff dP:	155 psi
Min flow:	—
BEP:	84.1% @ 762 US gpm
NOL power:	59.7 hp @ 1025 US gpm
Max Curve	
Max power:	79.2 hp @ 1041 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
960	3450	201	81.6	59.6	20.4
800	3450	245	84	58.7	18.7
640	3450	280	83.3	54.3	18.4
480	3450	301	76.6	47.5	18.2
320	3450	—	—	—	—



PO Box 720 Parma, Idaho 83660
Office 208.722.6731 Fax 208.722.6736
Email riverside@rsicorp.net

Invoice

Customer Number

RILES, STEVE

Invoice Number

PR11602

Contact

Order Date

3/12/2014

Shipped Date

5/16/2014

Invoice Date

5/16/2014

Bill To:

STEVE RILES
2429 LAPPIN ROAD
COUNCIL, ID 83612
(208) 253-0285 x

Ship To:

STEVE RILES
2429 LAPPIN ROAD
COUNCIL, ID 83612
(208) 253-0285 x

Ship Via

BESTWAY

Terms

Due On Receipt

Salesperson

House Employee

Customer PO

Original Order #

3-08931

ID PMI1176

Rating HP

Product ID	Qty	Ship	Description	Sales Price	Total
Labor	6	6	BOOM TRUCK WITH CREW TO INSTALL PUMP IN MIDVALE, IDAHO INCLUDES TRAVEL	170.00	1,020.00
9LC-2 PUMP	1	1		3,700.00	3,700.00
75HP SUB MOTOR	1	1		8,281.25	8,281.25
1/0 SUB CABLE	175	175		10.53	1,842.75
1/0 SPLICE KIT	2	2		22.50	45.00
6IN PIPE	* 147	147		16.26	2,390.22
6IN CHECK VALVE	1	1		764.29	764.29
Shop Supplies	1	1	MISC SHOP SUPPLIES	300.00	300.00

Reason Sent For Repair: NEW INSTALL OF 75 HP SUBMERSIBLE PUMP IN MIDVALE, IDAHO. INCLUDES NEW COLUMN, PUMP, WIRE, CHECK VALVE, AND ALL OTHER NECESSARY IMPLEMENTS. THERE WAS A CHANGE IN THE PRICE DO TO

			Subtotal:	18,343.51
			Freight:	0.00
			Other:	0.00
			6.000 % Sales Tax 1:	1,021.41
			0.000 % Sales Tax 2:	0.00
			Total:	19,364.92
Thank You!		Charge Card:	Exp Date:	

Our Tax ID: 82-0457462

Your Tax ID:

Taxable Material 17,023.51

Taxable Labor 0.00

Page 1 of 2

* 147 FT OF PIPE TO PUMP SETTING. AB, IDWR 10/24/14.

PGP Ultra Blue Standard Nozzle Performance Data

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr	
1.5	25	29'	1.2	0.27	0.32
	35	31'	1.4	0.28	0.32
	45	31'	1.5	0.30	0.35
	55	32'	1.8	0.34	0.39
	65	32'	1.9	0.36	0.41
2.0	25	33'	1.4	0.25	0.29
	35	33'	1.7	0.30	0.35
	45	34'	2.0	0.33	0.38
	55	34'	2.1	0.35	0.40
	65	32'	2.3	0.43	0.50
2.5	25	33'	1.7	0.30	0.35
	35	35'	2.1	0.33	0.38
	45	35'	2.5	0.39	0.45
	55	35'	2.6	0.41	0.47
	65	35'	2.9	0.46	0.53
3.0	25	35'	2.2	0.35	0.40
	35	36'	2.7	0.40	0.46
	45	38'	3.0	0.40	0.46
	55	39'	3.4	0.43	0.50
	65	39'	3.7	0.47	0.54
4.0	25	37'	3.0	0.42	0.49
	35	39'	3.5	0.44	0.51
	45	40'	4.0	0.48	0.56
	55	41'	4.5	0.52	0.60
	65	41'	4.8	0.55	0.63
5.0	25	37'	3.7	0.52	0.60
	35	39'	4.5	0.57	0.66
	45	42'	5.0	0.58	0.63
	55	42'	5.7	0.62	0.72
	65	42'	6.2	0.68	0.78
6.0	25	38'	4.3	0.57	0.66
	35	40'	5.6	0.67	0.78
	45	43'	6.0	0.62	0.72
	55	44'	6.7	0.67	0.77
	65	44'	7.3	0.73	0.84
8.0	25	37'	6.0	0.84	0.97
	35	41'	7.0	0.80	0.93
	45	44'	8.0	0.80	0.92
	55	46'	9.0	0.82	0.95
	65	46'	9.8	0.89	1.03

PGP Ultra Gray Low Angle Nozzle Performance Data

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr	
2.0	30	25'	1.6	0.49	0.57
	40	27'	1.9	0.50	0.58
	50	28'	2.1	0.52	0.60
	60	30'	2.3	0.49	0.57
2.5	30	27'	2.1	0.55	0.64
	40	30'	2.5	0.53	0.62
	50	33'	2.8	0.49	0.57
	60	35'	3.0	0.47	0.54
3.5	30	29'	2.8	0.64	0.74
	40	32'	3.1	0.58	0.67
	50	35'	3.5	0.55	0.64
	60	37'	3.8	0.53	0.62
4.5	30	29'	3.4	0.78	0.90
	40	32'	3.9	0.73	0.85
	50	35'	4.4	0.69	0.80
	60	37'	4.7	0.66	0.76

Note: All precipitation rates calculated for 180 degree operation.
For the precipitation rate for a 360 degree sprinkler, divide by 2.

NON-STRIPPABLE BACKDRIVE

This PGP Ultra sprinkler is designed with an internal device that prevents damage to the internal gear drive if it should be turned by vandals. This important feature works when the nozzle turret is turning in either direction. This makes the sprinkler very durable in all applications.

AUTO ARC RETURN

This PGP Ultra sprinkler is designed with an internal device that re-aligns the arc if it is turned by vandals. This important feature works when the nozzle turret is turned in either direction. When forced

PGP Ultra 18' Short Radius Nozzle Performance Data

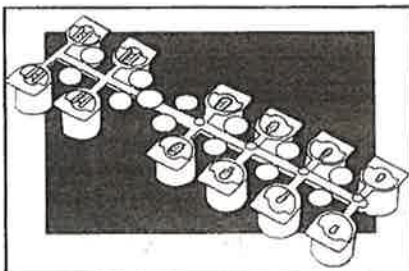
Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr	
.50	30	17'	0.36	0.24	0.28
	40	17'	0.43	0.29	0.33
	50	18'	0.50	0.30	0.34
SR	60	19'	0.57	0.30	0.35
1.0	30	17'	0.78	0.52	0.60
	40	17'	0.90	0.60	0.69
	50	18'	1.0	0.59	0.69
SR	60	19'	1.1	0.59	0.68
2.0	30	17'	1.4	0.93	1.08
	40	17'	1.7	1.13	1.31
	50	18'	2.0	1.19	1.37
SR	60	19'	2.2	1.17	1.35

PGP Ultra 25' Short Radius Nozzle Performance Data

Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr	
.75	30	23'	0.58	0.21	0.24
	40	24'	0.68	0.23	0.26
	50	25'	0.75	0.23	0.27
SR	60	26'	0.83	0.24	0.27
1.5	30	23'	1.1	0.40	0.46
	40	24'	1.3	0.43	0.50
	50	25'	1.5	0.46	0.53
SR	60	26'	1.6	0.46	0.53
3.0	30	23'	2.5	0.91	1.05
	40	24'	2.7	0.90	1.04
	50	25'	3.0	0.92	1.07
SR	60	26'	3.1	0.88	1.02

Note: All precipitation rates calculated for 180 degree operation.
For the precipitation rate for a 360 degree sprinkler, divide by 2.

PGP ULTRA BLUE NOZZLES P/N 732900



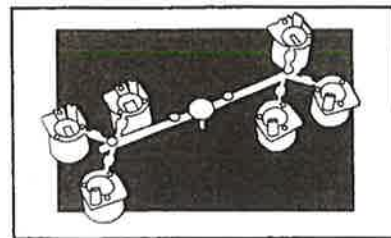
PGP Ultra 5.5 m Short Radius Nozzle Performance Data - Metric

Nozzle	Pressure Bars	kPa	Radius m	Flow m³/hr	l/min	Precip mm/hr	
.50	1.7	172	4.9	0.07	1.2	6	7
	2.0	200	5.2	0.08	1.3	6	7
	2.5	248	5.2	0.09	1.5	7	8
	3.0	303	5.2	0.10	1.7	8	9
	3.5	352	5.5	0.12	1.9	8	9
SR	4.0	400	5.5	0.13	2.1	8	10
	4.5	448	5.5	0.14	2.3	9	10
1.0	1.7	172	4.9	0.16	2.7	14	16
	2.0	200	5.2	0.17	2.9	13	15
	2.5	248	5.2	0.19	3.2	14	17
	3.0	303	5.2	0.21	3.6	16	18
	3.5	352	5.5	0.23	3.8	15	18
SR	4.0	400	5.5	0.25	4.1	16	19
	4.5	448	5.5	0.26	4.3	17	20
2.0	1.7	172	4.9	0.28	4.7	24	27
	2.0	200	5.2	0.31	5.2	23	27
	2.5	248	5.2	0.36	6.0	27	31
	3.0	303	5.2	0.41	6.9	31	35
	3.5	352	5.5	0.45	7.6	30	35
SR	4.0	400	5.5	0.49	8.2	33	38
	4.5	448	5.5	0.53	8.9	35	41

PGP Ultra 7.6 m Short Radius Nozzle Performance Data - Metric

Nozzle	Pressure Bars	kPa	Radius m	Flow m³/hr	l/min	Precip mm/hr	
2.0	1.7	172	7.3	0.33	5.6	12	14
	2.0	200	7.6	0.36	6.0	12	14
	2.5	248	7.9	0.40	6.7	13	15
	3.0	303	8.2	0.45	7.4	13	15
	3.5	352	8.5	0.48	8.0	13	15
LA	4.0	400	8.8	0.52	8.6	13	15

PGP ULTRA SHORT RADIUS NOZZLES P/N 466100



NON-REVERSING 360

This PGP Ultra sprinkler is designed as a part- and full-circle in one model. When the sprinkler is adjusted to the full-circle position, the sprinkler will rotate in a continuous counter-clockwise direction. This saves everyone from stocking additional full-circle only models while efficiently irrigating the landscapes.

PGP Ultra Blue Standard Nozzle Performance Data - Metric

Nozzle	Pressure Bars	kPa	Radius m	Flow m³/hr	l/min	Precip mm/hr	
1.5	2.0	200	9.1	0.29	4.8	7	8
	2.5	250	9.4	0.32	5.4	7	8
	3.0	300	9.8	0.35	5.9	7	9
	3.5	350	9.8	0.38	6.4	8	9
	4.0	400	9.8	0.41	6.8	9	10
2.0	4.5	450	9.4	0.43	7.2	10	11
	2.0	200	10.1	0.35	5.8	7	8
	2.5	250	10.1	0.39	6.5	8	9
	3.0	300	10.4	0.43	7.2	8	9
	3.5	350	10.4	0.47	7.8	9	10
2.5	4.0	400	10.4	0.50	8.3	9	11
	4.5	450	10.4	0.53	8.8	10	11
	2.0	200	10.4	0.43	7.1	8	9
	2.5	250	10.7	0.48	8.0	8	10
	3.0	300	10.7	0.54	8.9	9	11
3.0	3.5	350	10.7	0.58	9.7	10	12
	4.0	400	10.7	0.62	10.4	11	13
	4.5	450	10.7	0.66	11.1	12	13
	2.0	200	10.7	0.54	9.1	10	11
	2.5	250	11.0	0.61	10.2	10	12
4.0	3.0	300	11.6	0.68	11.4	10	12
	3.5	350	11.9	0.74	12.3	10	12
	4.0	400	11.9	0.79	13.2	11	13
	4.5	450	11.9	0.84	14.0	12	14
	2.0	200	11.6	0.73	12.2	11	13
5.0	2.5	250	11.9	0.81	13.6	12	13
	3.0	300	12.2	0.90	15.0	12	14
	3.5	350	12.2	0.97	16.2	13	15
	4.0	400	12.5	1.04	17.3	13	15
	4.5	450	12.5	1.10	18.3	14	16
6.0	2.0	200	11.6	0.91	15.2	14	16
	2.5	250	11.9	1.02	17.1	15	17
	3.0	300	12.8	1.14	19.0	14	16
	3.5	350	12.8	1.24	20.6	15	17
	4.0	400	12.8	1.32	22.1	16	19
8.0	4.5	450	12.8	1.41	23.4	17	20
	2.0	200	11.9	1.09	18.2	15	18
	2.5	250	12.2	1.22	20.4	16	19
	3.0	300	13.1	1.36	22.7	16	18
	3.5	350	13.1	1.47	24.5	17	20
8.0	4.0	400	13.4	1.57	26.2	18	20
	4.5	450	13.4	1.67	27.9	19	21
	2.0	200	11.9	1.46	24.3	21	24
	2.5	250	12.5	1.63	27.2	21	24
	3.0	300	13.4	1.81	30.2	20	23
LA	3.5	350	13.7	1.95	32.6	21	24
	4.0	400	14.0	2.09	34.8	21	25
	4.5	450	14.0	2.22	36.9	23	26

PGP Ultra Gray Low Angle Nozzle Performance Data - Metric

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	Bars	kPa		m³/hr	l/min	■	▲
2.0 LA	1.7	172	7.3	0.33	5.6	12	14
	2.0	200	7.6	0.36	6.0	12	14
	2.5	248	7.9	0.40	6.7	13	15
	3.0	303	8.2	0.45	7.4	13	15
	3.5	352	8.5	0.48	8.0	13	15
	4.0	400	8.8	0.52	8.6	13	15

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0064495

Drilling Permit No. 963390-869449

Water right or injection well # 67-15088

2. OWNER:

Name Steve Ryals

Address 2429 Lappin Lane

City Council State Id. Zip 83612

3. WELL LOCATION:

Twp. 12 North ☒ or South ☐ Rge. 02 East ☐ or West ☒

Sec. 08 1/4 NE 1/4 NW 1/4

Gov't Lot _____ County Washington

Lat. 44 23.82 (Deg. and Decimal minutes)

Long. 116 36.30 (Deg. and Decimal minutes)

Address of Well Site None, Farm to Market Road

City Midvale

(Give at least name of road • Distance to Road or Landmark)

Lot _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection

☐ Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite Chips	.75	114	3 Spr. Sks	Pour & Tag
			+ 30 bags	

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner Threaded Welded
10.75	1.34	296+	.250	Steel	☒ ☐ ☐ ☒
					☐ ☐ ☐ ☐
					☐ ☐ ☐ ☐
					☐ ☐ ☐ ☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 296.75

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type 304 Stainless Cont. Wound

Method of installation Cut 8" Shoe, Set on Bottom & pull back 8"

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
293+	410	.025		6"IPS	St. St.	

Length of Headpipe 8' Length of Tailpipe 7.8'

Packer ☒ Y ☐ N Type (2) 8 X 6 & (2) 10 x 8

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
8-12 & 6-9	327+	418	33,900 lbs.	Pour & Tag

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 10 Static water level (ft) 17

Water temp. (°F) 65+ Bottom hole temp. (°F) 65+

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
TBD x Pump	TBD x Pump		☒	☐	☐	☐
Test	Test		☐	☐	☐	☐

Test method:

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
24	0	2	Hard Dry Black Adobe Clay (Soil?)		n
24	2	2.5	Hard Rusty Brown Sandstone		n
17.5	2.5	10	Gray / Brown Mudstone		n
"	10	16	Soft Claye Sand	x	
"	16	20	Brown Sandy Mudstone		n
"	20	30	Blue / Black Mudstone		n
"	30	39	Blue Clay		n
"	39	41	Blue / Green Mudstone		n
14.75	41	65	Blue / Green Mudstone		n
"	65	74	Brown & White Sand	x	
"	74	104	Blue / Green Mudstone		n
"	104	108	Brown and White Sand	x	
"	108	114	Blue / Green Mudstone		n
12	114	145	Blue / Green Mudstone		n
"	145	148	Fractured Basalt	x	
"	148	161	Blue / Green Mudstone		n
"	161	166	Sand	x	
"	166	-	Blue / Green Mudstone, Sand &	-	-
-	-	293	Cemented Sand	x	
12	293	294	Fractured Basalt	x	
"	294	296	Sand ?	x	
"	296	296-9	Fractured Basalt	x	
9.875	296-9	304	Fractured Basalt	x	
"	304	315	Mudstone / Cemented Sand	x	
"	315	316	Fractured Basalt	x	
"	316	318	Mudstone / Cemented Sand	xx	
"	318	321	Fractured Basalt	x	
"	321	323	Sand?	x	
"	323	329	Fractured Basalt	x	
"	329	331+	Sand?	x	
"	331+	-	Fractured Basalt w/Sand, Sand &	-	-
-	-	418	Cemented Sand & Mudstone	x	

Completed Depth (Measurable): 418 ft.

Date Started: Aug 5, 2013 Date Completed: Oct 28, 2013

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 Robert Dawson Drilling, Inc. Co. No. 589

*Principal Driller Robert Dawson Date Jan 11, 2014

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

RECEIVED

JAN 13 2014

WATER RESOURCES
WESTERN REGION

Basin/Seq	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SESW	NESE	NWSE	SWSE	SESE
67-14798	WOLFE, CAROL	UNNAMED STREAM			X						X			
67-15088	MIDVALE 220 L	GROUND WATER				X								
67-15126	MIDVALE 220 L	GROUND WATER				X								

 = this right
 = overlap

BasinSequence	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
67-14798	WOLFE, CAROL	UNNAMED STOCKWATER FROM STORAGE				X									X				
67-15088	MIDVALE 220 L	GROUND WATER IRRIGATION			34	27		32		19									112
67-15126	MIDVALE 220 L	GROUND WATER IRRIGATION			5	3		7											15

 = this right = overlap



Fig. 1 – 10" diameter
418 ft deep well with
10" steel discharge
line to an 8" line for
pivot and 6" line to
solid set sprinkler
lines.



Fig. 2 - Well ID
#435636 located at:
44°23'44" N
116°36'17" W



Fig. 3 – Control box for 75-hp pump within well



Fig. 4 – 7 TWR ZIMMATIC 9500 FC pivot. The NE and SE sections of this permit's place of use are irrigated with the pivot end gun.



Fig. 5 – Close up view of pivot end gun.



Fig. 6 – Hunter PGP sprinkler heads are used to irrigate NW section of place of use. View looking east.



Fig. 7 – Close up view
of Hunter PGP Ultra
solid set sprinkler



Fig. 8 – Crops had
just been
harvested in the
NE corner of the
place of use. View
looking north.



Fig. 9 – SE corner of the place of use is watered via pivot end gun. View looking south.



Fig. 10 – NW corner of place of use is watered via solid set sprinklers. View looking west.



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

BRAD LITTLE
Governor

GARY SPACKMAN
Director

July 24, 2020

MIDVALE 220 LLC
PO BOX 9200
KETCHUM ID 83340

COPY

Re: Notice of Intent to Void Permit to Appropriate Water No. 67-15126

Dear Permit Holder,

On June 24, 2020 the Department of Water Resources (IDWR) attempted to contact you to conduct a field examination to verify your water use and issue a water right license. There was no response to that letter. A field examination is not required for your permit if the following components of the permit can be confirmed through documentary means: the application of water to a beneficial use, the location of the point of diversion, the location of the place of use, and the season of use. Acceptable forms of documentation include photographs of the pump and diversion system, photographs of the irrigated place of use, and GPS coordinates. If department staff can not demonstrate that water is diverted and put to beneficial use in accordance with the permit either through documentation submitted by you or by field examination, then a license will not be issued. It is the intent of IDWR to void your permit if a response is not received within fourteen (14) days.

IDWR forms and other information are available on the Internet at www.idwr.idaho.gov. Please contact me at 208-334-2190 if you need more information. Thank you for your attention to these matters.

Sincerely,

Tyler Smith
Water Resource Agent
Western Region
IDWR



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 24, 2020

COPY

MIDVALE 220 LLC
P.O. BOX 9200
KETCHUM, ID 83340

RE: Scheduling Field Exam for Water Right Permit No. 67-15126

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 **0.34 CFS** of **GROUNDWATER** for **IRRIGATION** use. **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 or tyler.smith@idwr.idaho.gov 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,

Tyler Smith
Water Resource Agent

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