STATE OF IDAHO DEPARTMENT OF WATER RESOURCES BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 45-7498 Exam Date: 7/23/2019

- 1. Current Owner: GEORGE M KELLEY AND/OR JO ANN KELLEY PO BOX 25 ALBION ID 83311
- Accompanied by: Bill Kelley and Allison Inouye, IDWR Sr. Agent Phone No: 208-312-0087 Address: ALBION ID Relationship to permit Holder: Son

3. <u>SOURCE:</u> GROUND WATER GROUND WATER

Method of Determination: Aerial photography, Site visit, verified by Bill Kelly

B. OVERLAP REVIEW

1. Other water rights with the same place of use: <u>None. Note that rights 45-7153, 45-7176, and 45-7260 are used</u> in the same system, but are decreed for adjacent acres. Right 45-7498 is for additional acres above and beyond these three rights, but on adjacent lands.

Comments: Existing Water Rights

Other water rights w	vith the same point-of-diversion:	<u>YES</u> Overlap	
Water Right No.	Source	Purpose of Use	Basis
45-7153	Ground Water	Irrigation	Decree
45-7176	Ground Water	Irrigation	Decree
45-7260	Ground Water	Irrigation	Decree

Comments: Existing Water Rights

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW½ NW½, Sec. 10, Twp 12S, Rge 25E, B.M. CASSIA County GROUND WATER SE¼ NW½, Sec. 10, Twp 12S, Rge 25E, B.M. CASSIA County

Method of Determination: Aerial photography, Site visit, verified by Bill Kelly

PLACE OF USE: IRRIGATION

Two	Rng	Sec	NE NE			NW			SW				SE				Totals		
Twp	Ring	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12S	25E	3											6.0	6.0					12.0
12S	25E	9			3.0				40.0	38.0									81.0
12S	25E	10		40.0	14.5		5.0			0.5	1.0	6.0	39.0	23.0		6.0			135.0

Total Acres: 228.0

Method of Determination: Aerial photography, Site visit, verified by Bill Kelly

3.

0.	Delivery System Diagram Attached (required).	Indicate all major components and distances between components.
X	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.

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	Нр	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size		
WMIS #1000172	N/A	N/A	None	N/A	None		
WMIS #1000215	N/A	N/A	None	N/A	None		

D. FLOW MEASUREMENTS

No measurement was taken at the time of this exam. The development period for permit 45-7498 was from 6/2/1982 to 7/1/1987. A measurement taken on 8/12/1987 for permit 45-7260 for the same system. This measurement was used for permit 45-7498.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: None, the calculations from permit 45-7260 was used for this permit.

A measurement was taken on 8/12/1987 for both wells totaling a combined capacity of 4.53 cfs for the wells. Since these measurements were taken shortly after the end of the development period for this permit, this measurement is used for licensing permit 45-7498.

Recommend licensing permit 45-7498 with a flow rate of 4.53 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

V_{LR} = (Acres Irrigated) x (Irrigation Requirement) = 228 acres x 4 af/a = 912 AF

V = Smaller of V_{LR} and $V_{D.R}$ =

V _{LR} = 912 AF

Recommended Volume 912 AF

G. NARRATIVE/REMARKS/COMMENTS

On March 5, 1982 George and Esther Montgomery filed an Application for Permit for 5.2 cfs from two wells for the irrigation of 260 acres. The permit was approved on June 22, 1982 with Proof of Beneficial Use due on or before June 1, 1987. A request for extension of time was filed and proof was extended to July 1, 1987. An Assignment of Permit was filed on June 16, 1995 by George and Esther Montgomery to Warren Yadon. Proof of Beneficial Use was filed by Mr. Yadon subsequently to the Assignment of Permit, for 4.56 cfs for 260 acres with 228 acres being developed. On September 27, 1996 Permit 45-7498 was reinstated and the priority date was advanced to June 16, 1995. Permit 45-7498 was assigned to George and/or JoAnn Kelly on September 2, 2010.

On September 23, 2019 Allison Inouye and I met with Bill Kelley at the Albion Country Store where we explained our reason for meeting was to verify the development of permit 45-7498 and to complete a licensing exam. We then drove out to Mr. Kelley's farm whereby he showed us the irrigation system and the land he is currently farming under permit 45-7498 and associated water rights (45-7153, 45-7176, and 45-7260). He explained that some of the land under permit 45-7498 was currently in the Conservation Reserve Program, (CRP), and is expected to expire in a couple of years. The land in CRP is comprised of several corners of the existing pivots, a 40 acre tract and a number of smaller acreages around the currently irrigated land. Mr. Kelley has the additional equipment, (mainline, pivot and hand lines) to irrigate the entire 228 acres under permit 45-7498 including the land currently in CRP. Review of older aerial photography indicated that these lands had been irrigated in the past. This permit has had a rather complex history with the permit being reinstated based on pre July 1, 1987 development. Based on this concept, the system capacity is based on an August 12, 1987 measurement for the licensing of right 45-7260 from the same system. Note that this results in no additional flow for the licensing of permit 45-7498, but provides additional acres and volume from the same system. The irrigation system consists of two wells tied together and four booster pumps with mainline to two full pivots, two half pivots, two quarter pivots, and a number of hand lines and other sprinkler systems. Permit 45-7498 was amended to update the location of one of the wells and to identify the 228 acres developed of the original 260 acres listed on the original application.

Have conditions of permit approval been met? Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
IRRIGATION	3/15 to 11/15	4.53 CFS	912.0 AF
	<u>Totals:</u>	4.53 CFS	912.0 AF
2. Recommended Amendments			
Change P.D. as reflected abov	e Add P.D.	as reflected above	None
Change P.U. as reflected abov	e Add P.U.	as reflected above	None
	Walker - Water Reso		111/20
Field Examiner's Name	y Walk	Date	116/20



Place of Use





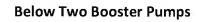
Above: Place of Use and a pivot being stored



Above: Point of Diversion with Two Booster Pumps



Above: Point of Diversion





ε no - € ^{−∞}



Meters Installed at each Pump





.2		RECEIVED
Form		FEB 1 6 1989
6/86	STATE OF IDAHO DEPARTMENT OF WATER RESOURCE	S
	BENEFICIAL USE FIELD REP	OR Pepartment of Water Resources
Α.	GENERAL INFORMATION	Permit No: <u>45 - 7260</u>
	1. Owner: Ester Montgomery	Phone No. 673 - 533 /
	Current Address: Slar Rt Bex 11 albion Volaho	
	2. Accompanied by: Leage montgomeny	
	Address: Star Rt Box 13 alber Idaho 83311	Phone No. $-673 - 6644$
	Relationship to Permit Holder:	
	3. Source: granduater tributary to	
P	,	
В.	OVERLAP REVIEW	
	1. Other water rights with same place of use:	
	2. Other water rights with same point of diversion:	Copies Attached
	Copies Attac	hed 🛛 Copies of Field Exam's Attached
С.	SYSTEM DESCRIPTION	
	1. Diversion System Diagram: Indicate all major components and dista size/ditch size/pipe i.d. as applicable.	
	IN Licensing Exam privit for 45-7260. August 12, 1987 measurements of wells I	6/17/2020 Ackin
T	used for measurements I of system capacity for I	
1	45-7498 licensing exam.	ŧ ⊱-4 ┝
	X Z Z Z Z Z Big Z I Volve	Of Small
-	Scale: 1" =	
	2. A Copy of U.S.G.S. Quadrangle Attached Aerial Photo Att	gation of 10 acres or more).

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.) 2 - 14 mile 2 inco Rumps. main 5+12 32 A on 5 ines 2 lines 00 an Sin (heteren Pho mai value mable. volo coming in - 611 in So 1 sup nactura Allon icm in Shere mo 2 issen r PMIA 11

See Remarks on page 4 for continuation

Well or Diversion Identification No.*	Motor Make	Нр	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Bia	G.E.	150	CKJ 313171	aniera	00229
Small	G.E,	75	EJJ 509478	aurora	354-82292
					-
	SNL 112				

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

5. Point(s) of Diversion:

4

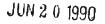
Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
Big			Sa	Nu	10	125	25E	Cassia	acual Photo / tisua
Small			SE	ww	10	125	ASE	Caesia	anial there I Tisual
			<u> </u>						
								0	

6. Place(s) of Use:

Indicate Method of Determination ____

				NE¼		NW1/4			SV	¥1⁄4		SE1/4							
Twp.	Rge.	Sec.	NE%	NW1/4	SW1/4	SE14	NE%	NW14	SW1/4	SE¼	NE¼	NW1/4	SW1/4	SE1/4	NE¼	NW%	SW1/4	SE14	Totals
125	25E	3											33						33
125	J SE	9			26	39				1									65
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Év.,



Do not use this space

45-7260 --Small Well

Do not use this space

D. FLOW MEASUREMENTS

Additional Data Sheets Attached

Measurement Equipment	Туре	Make	Model No.	Serial No.	Size	Calib. Date
annubar					8"	_
				·		
	a					
Measurements: $Q = I_i$	76 af	Δ				
	-					
when smo	.10	11	testell 1	rival ma	0 444	100110275

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

1. Measured Method: Q = 1.76 gp

2. Alternate Method for Checking Purposes: (75)(88)(.7) = 1.79 for a=1.79 for

PUMP EFFICIENCY DATA (Optional) F.

Discharge Pressure: 21 psi x 2.31 = 48.5 ft (1); Dynamic pumping level: 210 ft (2) ; Flow rate: 1.76 cfs (4) Total Head: (1) + (2) = 258.5 (3)

Water HP: (3) x (4) \div 8.8 = $\frac{51.7}{1000}$ (5) ____ CTR or ______ MULT x _____ PTR x 2 N/65 T = _____(6) Meter Input KW: 3.6 x 57.6 KH x _ Meter Input HP: (6) x 1.34 = ____ (7) _. Ave Volts x _____ Ave Ampsx .001732 = _____ (6) Panel Input KW: _____ Ave PF x . Efficiency: (5)/(7) x 100 = ____% Panel Input HP: (6) x 1.34 = _____ (7) Roff River Electric # 33 120 041

JUN20 Key)

G. VOLUME CALCULATIONS

2011 S

1. Volume Calculations for Irrigation:

V_{LR.} = (Acres Irrigated) x (Irrigation Requirement) =

V_{D.8.} = [Diversion Rate (cfs)] x (Days in Irrigation Season) x 1.9835 = MILAUTIEM

V = Smaller of V_{LR.} and V_{D.R.} = ____

2. Volume Calculations for Other Uses:

Big Well

Do not use this space

D. FLOW MEASUREMENTS Additional Data Sheets Attached 1. Calib. Measurement Equipment Туре Make Model No. Serial No. Size Date D^{\cdot} annula Measurements: 4.53 do Qe+ Qs = 2.77 + 1.76 = when large well was tested, I pinot and the homollines FLOW CALCULATIONS Additional Computation Sheets Attached 1. Measured Method: Q=2.77 cho 2. Alternate Method for Checking Purposes: $Q = \frac{(150)(28)(.7)}{319.7} = 2.89 \text{ Mps}$ PUMP EFFICIENCY DATA (Optional) Discharge Pressure: 54 psi x 2.31 = 124.7 ft (1); Dynamic pumping level: 195 ft (2) Total Head: (1) + (2) = 319.7 (3) : Flow rate ; Flow rate: 2,77 cfs (4) Water HP: (3) x (4) ÷ 8.8 = $\frac{100.6}{9.8}$ (5) Meter Input KW: 3.6 x $\frac{9.8}{1.8}$ KH x _____ CTR or _____ MULT x ____ PTR x $\frac{2}{3.0}$ N/ $\frac{27.0}{27.0}$ T = ____ (6) Meter Input HP: (6) x 1.34 = _____ (7)

 Panel Input KW:
 Ave PF x
 Ave Volts x
 Ave Ampsx .001732 = _____ (6)

 Panel Input HP: (6) x 1.34 = _____ (7)
 Efficiency: $(5)/(7) x 100 = _____ %$
Raft River Electrice # 78 829 338 G. VOLUME CALCULATIONS 1. Volume Calculations for Irrigation: $V_{IR} = (Acres Irrigated) \times (Irrigation Requirement) = (372)(3.5) = 1302 Afa$ Total 2 $V_{DR} = [Diversion Rate (cfs)] \times (Days in Irrigation Season) \times 1.9835 = (4.53)/246 (1.9835) = 2210 Afa$ V = Smaller of V_{LR} and V_{DR} = ________A MIGROUTLENED 2. Volume Calculations for Other Uses: 45-7260 (150×3.5) = 525 Afa (3×246×1.1835) = 1464 Afa JUN 2 U 1990

H. REMARKS AND OVERLAP REVIEW ANALYSIS

I. RECOMMENDATIONS

J.

Κ.

1. Recommended Amounts

Beneficial Use	Perioc From	d of Use To	Rate of Div Q (cfr		Annual Volume V (afa)
inigation	3-15	11-15	3.00		525
	(<u>+</u>				
		Totals:	3.00		525
2. Recommended Amendments					
Change P.D. as reflected above	🗆 Add	P.D. as reflected	above	C None	
Change P.U. as reflected above	bbA 🕅	P.U. as reflected	above	C Other	
AUTHENTICATION	<i>.</i>			Other	ALCIER HANDING
Field Examiner's Name	Darren	Knuteson		1	
Signature	Janen 7	nutiro		J. F	3445 41
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	1			CONSULTANN	EADE Y
Field Report Preparation Date	12/87			VE.	O HOLM

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MN 2-11 1990

Form 219-Supp.						
7/87	State of Id					
DEPARTMENT OF WATER RESOURCES						
SUPPLEMENT	AL FIELD REPORT FO	R ANNUBAR MEASUREMENT				
Measured by: Lanen Kny	Toron	8-12-87				
th m +	NOW.	Date <u>8-12-87</u> Permit No. <u>45-7260</u>				
Owner: Montg	omerij	Permit No. 45-7260				
	0					
		2				
Description of well &/or measurin - Include any clarifications of	the sketch					
- Include legal description if I	more than one p.d. is describ	ed in the Field Report				
Small Will						
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MEASURED INSIDE PIPE DIAMETER IN						
CIR = Pipe Circumference in						
T = Pipe Thickness in Inc	- T] =8,5	~				
ANNUBAR DESCRIPTION & CONSTANT						
State ID No.						
Select C based on size from 1	able below.					
Nominal Pipe Size C						
47 4.2						
6" 3.7 0" 3.8	7					
10" 3.5 12" 3.5	79					
14"- 16" 4.0 18"- 24" 4.0	12					
30" or larger 4.0	3,87)				
C selected Differential pressure reading in						
High Reading = 38.9						
Low Reading = 31, 2						
High - Low = H =						
CALCULATION OF DISCHARGE IN CFS	(0)					
Q =(10)2 . (J H.). (C)		2017 - 12				
18.58 2 157-	1 ' (3.87) = 1.76	CF5				
448.8		MICRAFILMED	×			
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Form 219-Supp.					3000.02		
7/87 State of Idaho DEPARTMENT OF WATER RESOURCES							
SUPPLE	MENTAL FIELD RE		_	+ -			
<u> </u>	2)+						
Measured by: Lang	Anulesor		Date 8	-12-87 45-7260			
Owner: Ester M	ontgomen		Permit No.	45-7260			
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0	ations of the sketch iption if more than one p n/)			-			
- Kig Wel	<u>l</u>	~ ~ ~ ~		<u>in</u>			
0				A			
				2.12 -	A		
MEASURED INSIDE PIPE OIA	HETER IN INCHES (10)					
CIR = Pipe Circumfs	rance in Inches = 3	3.84					
T = Pipe Thicknes		18					
•	x CIR) - T] =						
ANNUBAR DESCRIPTION & CO							
Size Used in Test							
State ID No.							
Select C based on sig							
5.8771							
Nominal Pipe Size	<u>E</u>						
4- 6" 8" <u>10"</u> 12" 14"- 16" 18"- 24" 30" or lærger	4 - 23 3 - 75 3 - 87 <u>3 - 94</u> 3 - 99 4 - 01 4 - 02 4 - 03				z		
C selected		3.94	_				
DIFFERENTIAL PRESSURE R	ADING IN INCHES OF HZO	<u>(н)</u>					
High Reading = 30	5.8						
Low Reading = 28	3.7						
High - Low = H ⇒		8.1	~				
CALCULATION OF DISCHARG	E·IN·CFS (Q)		~				
$Q = (10)^{2} \cdot (\sqrt{H}) \cdot (C)^{2} + (\sqrt{H}) \cdot (C)^{2} + (\sqrt{H}) \cdot (C)^{2} + (\sqrt{H})^{2} + (\sqrt{H})^{2$	<u>}</u>	6					
4 = (10.53) ² SKETCH (If not shown on	(<u>8</u> ,) (3.94 448-8 Field Report)) <u>- 2,77</u> crs	>	JUN 2 0 1990			
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