

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONExam Date: 2/27/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- a. X Irrigation of 5 acres or less
- b. Storage of up to 14.6 AF for stockwater purposes only
- c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
- d. Other < >
2. Current Owner: Michael and Brenda Kinnee
- Owner of Record Correct? N
- Address of Record Correct? N
- If No Explain: N/A
3. Beneficial Use Fees have been paid: X Y N Receipt No: C117690
4. Source: Groundwater Tributary: N/A

Method of Determination: GIS, Tax Parcel Data, and the permit holders Statement of Completion for Proof of Beneficial Use.

Change in Source: Y X N

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
63-18700	Boise River	Irrigation	Decreed
63-123E	Boise River	Irrigation	Decreed

Comments: Water rights 63-18700 and 63-123E are held by Capitol View Irrigation Co. However, since this permit authorizes diversion from a different source there is no reason to limit these rights combined.

2. Other water rights with the same point of diversion: X No Overlap

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

Comments: N/A

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Groundwater			SW	SE	32	05N	01E	B.M.	Ada
								B.M.	
								B.M.	

Method of Determination: GIS, Tax Parcel Data and Well Log.

Change in POD? Y X N Amendment Required? Y X N

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	
05N	01E	32															1.8	1.5	3.3
		Lot #																	
Total Acres =																		3.3	

Place of Use: Domestic, Stockwater

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	01E	32															X	X	X
		Lot #																	

Method of Determination: GIS, Tax Parcel Data, and May 2023 Google Earth Imagery.Change in POU? Y X N Amendment Required? Y X NDelivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable:

X Aerial Photo Attached (required for irrigation of 10+ acres).Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0083395					

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

D. FLOW MEASUREMENTS

1. Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurement Comments: The permit holder did not provide a pump horsepower. Therefore, a diversion rate calculation is not possible.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: Since the permit holder did not provide a pump horsepower, a diversion rate calculation was not possible. According to Administrative Processing Memo #17 the standard diversion rate/acre for the irrigation of 5 acres or less is 0.03 cfs per acre. According to Administrative Processing Memo #22 the standard diversion rate for a single-family home is 0.04 cfs. According to the permit holders' Statement of Completion for Proof of Beneficial Use they provide water for 6 horses, 12 mixed cows, and 8 goats. However, condition X02 on the permit authorizes stockwater for 6 horses and 6 mixed cows at 0.02 cfs. According to Table 1, Recommended Diversion Rates for Stockwater the standard diversion rate for the number of animals indicated by the permit holders Proof Statement is 0.02 cfs. Currently there is no standard diversion rate for mixed cattle. The standards set for range cattle should be used as a substitute. The permit authorized 0.10 cfs for irrigation, 0.04 cfs for domestic, and 0.02 cfs for stockwater use. I am recommending a diversion rate of 0.10 cfs for irrigation, 0.04 cfs for domestic and 0.02 cfs for stockwater use.

3.3 acres * 0.03 cfs/acre = 0.099 cfs or 0.10 cfs rounded

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (3.3 \text{ acres}) \times (4.5 \text{ af/acre}) = 14.9 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.10 \text{ cfs}) \times (260 \text{ days}) \times (1.9835 \text{ af/day}) = 51.6 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 14.9 \text{ af}$$

2. Volume Calculations for Other Uses: The permit authorizes in house domestic use because the ½ acre of yard irrigation is included within a separate irrigation use. According to Administrative Processing Memo #22 the standard diversion volume for in house domestic use is 0.6 af. The permit holder indicated on their Statement of Completion for Proof of Beneficial Use they provide water for 6 horses, 12 mixed cows, and 8 goats. Since there are no current standards for mixed cattle the standards for range cattle should be used as a substitute. According to Table 1, Recommended Diversion Rates for Stockwater the standard diversion volume for 6 horses 12 mixed cattle and 8 goats is 0.4 af. I am recommending a diversion volume of 0.6 af for domestic, 0.4 af for stockwater and 14.9 af for irrigation use or 15.9 af total.

12 gpd/head * 6 horses / 892.15 gal/day= 0.08 af or 0.1 af rounded

12 gpd/head * 12 mixed cattle / 892.15 gal/day = 0.16 af or 0.2 af rounded

2 gpd/head * 8 goats / 892.15 gal/day = 0.018 af or 0.1 af rounded

G. PURPOSE OF USE

Irrigation X Y N # Stock 6 horses, 12 mixed cattle, and 8 goats Domestic # of Homes 1 home barn and shop

Change in Purpose of Use? Y X N

Method of Determination: GIS, Tax Parcel Data, the permit holders Statement of Completion for Proof of Beneficial Use and May 2023 Google Earth Imagery.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-office examination. According to Tax Parcel Data the property was developed in 2020. The permit authorized domestic use, stockwater for 6 horses and 6 mixed cattle, and the irrigation of 5 acres. May 2023 Google Earth Imagery indicated 3.3 acres of irrigation occurred within the development period. Two condition on the permit required the permit holder to drill a well with a water bearing zone from 200-600 ft, an unperforated casing, and is sealed into the first confining layer below 200 ft. According to the well log the well is 304 ft deep, has an unperforated casing and is sealed from 0-222 ft. Therefore, the applicant has met those conditions. Another condition requires the permit holder to make use of any available surface water prior to groundwater. The permit holder confirmed on their Statement of Completion for Proof of Beneficial Use they have access and use surface water from the Capitol View Irrigation Co. prior to groundwater.

Since the permit holder did not provide a pump horsepower a diversion rate calculation was not possible. The standards set in Administrative Processing Memos #17, #22, and Table 1, Recommended Diversion Rates for Stockwater were used to make a diversion rate and volume recommendation. The permit authorizes 0.02 cfs for stockwater and condition X02 indicated stockwater use is for 6 horses and 6 mixed cattle. However, the permit holder indicated in their Statement of Completion for Proof of Beneficial Use they water 6 horses, 12 mixed cows and 8 goats. The recommended diversion rate would not change according to Table 1, Recommended Diversion Rates for Stockwater, a diversion volume for stockwater is not required on a permit, and condition X02 is removed as standard with licensing. Therefore, there should not be an issue recommending a diversion rate and volume based on the livestock numbers indicated on the Proof Statement. Currently there are no standards set for mixed cattle. The diversion rate and volume standards set for range cattle were used as a substitute. All of the conditions have been met and development of beneficial use was confirmed within authorization on the permit. Therefore, I am recommending a 0.16 cfs total diversion rate and 15.9 af total diversion volume.

Conditions WB7, R61, 943, 01M, 165, and 930 should remain on the license. Condition WB7 should be updated to meet the recommend diversion rate per acre and volume amounts. Condition WB5 should be changed to 132 to clarify the ½ acres of yard irrigation usually paired with domestic use is included under the irrigation portion of this right. Condition 121 should be changed to 103 as standard with licensing. Condition 046 should be removed because the permit holder complied with the drilling permit requirements of Idaho Code §42-235 and applicable Well Construction Rules of the Department. Condition X02 should be removed as standard with licensing. Condition 26A should be removed as standard with licensing.

Have conditions of permit approval been met? X Yes No

I. RECOMMENDATIONS

1. Recommended Amounts:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/01-11/15	0.10 CFS	14.9 AF
Stockwater	01/01-12/31	0.02 CFS	0.4 AF
Domestic	01/01-12/31	0.04 CFS	0.6 AF
	<u>Totals:</u>	0.16 CFS	15.9 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

Other: < >

J. AUTHENTICATION**Field Examiner: Skyler Cheever – Water Resource Agent**

Field Examiner's  Date 2/27/2024

Reviewer  Date 4/15/24

Field Exam Map

Map showing the authorized point of diversion (yellow point), Irrigated place of use (orange outline), and Domestic & Stockwater place of use (green outline).



May 2023 Google Earth Aerial Imagery

Imagery indicated 3.3 acres of irrigation occurred within the development period.



IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

RECEIVED

AUG 24 2020

WATER RESOURCES
WESTERN REGION

1. WELL TAG NO. D 0083395

Drilling Permit No. 892-799
Water right or injection well # 63-34618

2. OWNER:

Name Mike Kinnee Page 1 of 2
Address 22955 Buskirk Dr.
City Middleton State ID Zip 83644

3. WELL LOCATION:

Twp. 5 North ☒ or South ☐ Rge. 1 East ☒ or West ☐
Sec. 32 1/4 SW 1/4 SE 1/4Gov't Lot _____ County Ada
Lat. 43° 43.369 (Deg. and Decimal minutes)
Long. 116° 21.570 (Deg. and Decimal minutes)
Address of Well Site 3040 Sunny Meadow Lane
City Eagle

(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
3/8" Bentonite	0	10'	600 lbs	Poured
Cement / Grout	10'	222'	3.6 yds	Pumped

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner Threaded Welded
8"	+3.5'	21'	.250	Steel	☒ ☐ ☐ ☒
8"	21'	261'	Sdr17	PVC	☐ ☒ ☒ ☐
					☐ ☐ ☐ ☐
					☐ ☐ ☐ ☐

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type CertaLok

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
261'	301'	.020	-	8"	PVC	SDR 17

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
8/16 Silica	222'	301'	1.5 yds	Poured

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) 96 ft. Static water level (ft) 86 ft.
Water temp. (°F) 62.3° Bottom hole temp. (°F) 62.3°
Describe access port Well Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
23 ft.	75 gpm	1560 mins

Test method:

Pump	Ballor	Air	Flowing artesian
☒	☐	☐	☐
☐	☐	☐	☐

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
18"	0	3'	Top Soil		X
18"	3'	7'	Fine Tan Sand		X
13"	7'	9'	Fine Tan Sand		X
13"	9'	15'	Tan Sandy Clay		X
13"	15'	21'	Medium Tan Sand		X
13"	21'	23'	Tan Clay		X
13"	23'	34'	Tan Sand & Pea Gravel		X
13"	34'	35'	Tan Silty Clay		X
13"	35'	40'	Tan Sand & Pea Gravel		X
13"	40'	46'	Tan Clay		X
13"	46'	49'	Tan Sand with Some Pea Gravel		X
13"	49'	55'	Tan Clay		X
13"	55'	75'	Gravel & Boulders		X
13"	75'	96'	Tan Clay		X
13"	96'	99'	Tan Sand	X	
13"	99'	132'	Tan Clay		X
13"	132'	133'	Tan Sand	X	
13"	133'	141'	Tan Clay		X
13"	141'	144'	Medium Tan Sand	X	
13"	144'	146'	Brown Clay		X
13"	146'	150'	Tan Clay		X
13"	150'	151'	Tan Sand	X	
13"	151'	153'	Tan Sandy Clay		X
13"	153'	154'	Tan Sand	X	
13"	154'	158'	Tan Clay		X
13"	158'	178'	Medium Tan Sand	X	
13"	178'	180'	Tan Clay		X
13"	180'	184'	Sand with Some Pea Gravel	X	
13"	184'	186'	Tan Clay		X
13"	186'	203'	Tan Sand with Medium Pea Gravel	X	
13"	203'	218'	Tan Clay		X
			(Continued on Page 2)		

Completed Depth (Measurable): _____

Date Started: _____

Date Completed: _____

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 Pearson Well Drilling Co. No. 771*Principal Driller Anthony Pearson Date 3/1/2020

*Driller _____ Date _____

*Operator II Heidi Pearson Date 3/1/2020

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

