

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-341211. Owner Jon CarterPhone No. 208-965-9552Current address 14284 Lewis Lane, Nampa, Idaho 836162. Examiner's name Cody ParkerEXAM DATE 06/26/20183. Accompanied by Jon Carter

Email _____

Address _____

Relationship to permit holder _____

Phone No. _____

4. Source Groundwater

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use 63-32330-different POD

2. Other water rights with the same source and point of diversion _____

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

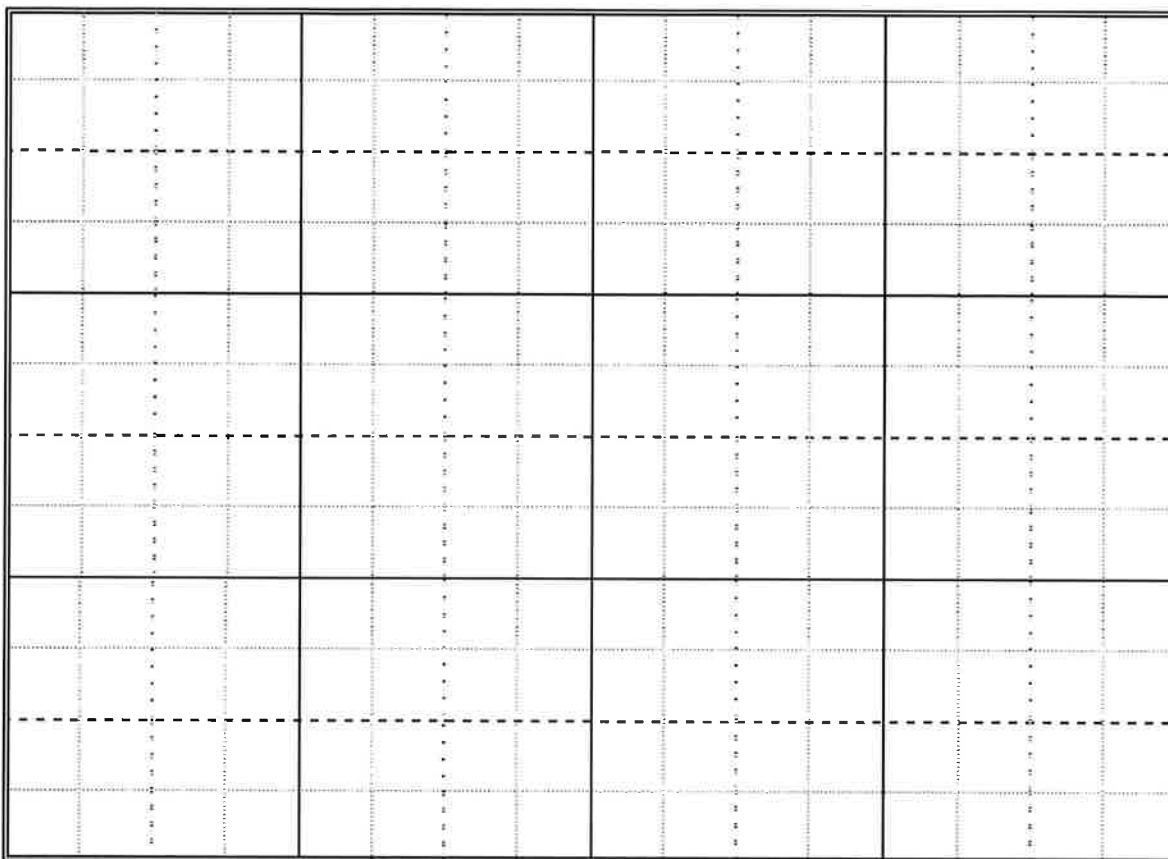
Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			SW	SE	10	02N	03W	Canyon	GPS, well driller report

2. Place(s) of Use:

Method of determination Site visit, digital PLS map

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02N	03W	10															7.5		7.5

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.



Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (**required**)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0071704		40	VFD		3" discharge

*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
Panametric						

2. **Measurements:** _____

0.19 cfs Panametric

19 x 7/64" nozzles @ 80 psi operating pressure

E. NARRATIVE/REMARKS/COMMENTS

This permit authorizes the diversion of 0.20 cfs from groundwater to irrigate 10 acres. Proof was submitted January 6, 2017. I completed this field exam on June 26, 2018. I was accompanied by the permit holder during the exam.

The POD is a 12" well w/ metal tag no. D0071704. It is located at N 43 31'2.3" by W 116 40'45.6". Water is diverted from the well using a 40-hp submersible pump with VFD. Water can be directed northward to the home for domestic use and watering the lawn and other areas surrounding the home. The water can also be diverted directly east to risers which lead into wheel lines. Risers are located every ~30 ft. along the souther boundary of the place of use.

Typically, only 1 wheel line is run at a time. Each wheel line has 19 sprinkler heads w/ 7/64" nozzles. Operating pressure at the well head is 80 psi. According to the Nozzle Requirements Worksheet from irrigation.wsu.edu, at 80 psi each sprinkler head should put out around 3.1 gpm. The total diversion rate by this method is 58.9 gpm max (0.13 cfs). this method ignores any pressure loss due to friction and elevation change. We also took a Panametric measurement on the wheel line during normal operation. The Panametric received poor signal due to corrosion and did not collect any totalizing flow data. However, the instantaneous reading on the face of the device during the test showed a rate of 0.19 cfs. That rate exceeds the BU standard ($0.02 \text{ cfs/acre} \times 7.5 \text{ acres} = 0.15 \text{ cfs}$), so I have recommended 0.15 cfs for the license. The recommended volume was determined using the standard headgate volume of 4.5 afa/acre.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

Instantaneous Panametric reading: 0.19 cfs (see pictures)

Nozzle discharge: 19 nozzles @ 3.1 gpm per nozzle = 58.9 gpm = 0.13 cfs

BU Standard: 7.5 acres x 0.02 cfs/acre = 0.15 cfs (recommended)

Fee Rate = 0.20 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 7.5 \text{ acres} \times 4.5 \text{ afa/acre} = 33.8 \text{ afa}$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.15 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 77.4 \text{ afa}$$

$$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = 33.8 \text{ afa}$$

2. Volume Calculations for Other Uses:

None

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	03/01	11/15	0.15 cfs	33.8 afa
Totals:			0.15 cfs	33.8

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature _____ Date _____

SEAL

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Beneficial Use Field Exam
63-34121

IRRIGATION

03W



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

0 0.035 0.07 0.14 Miles





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Figure 1. Irrigation of the place of use facing south.



Figure 2. Roughly 80 psi operating pressure at the well head with 1 wheel line running.

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Figure 3. 7/64" nozzles on each sprinkler head on wheel lines.



Figure 4. Panametric showing 0.19 cfs instantaneous rate.

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Figure 5. Drip line along the western edge of the property.



Figure 6. The metal tag on the well.

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Figure 7. The well head is located just north of Lewis Lane.

02N03W10

Basin/Sequ	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total/Acres
63-11722	PERKINS, GROUND IRRIGATION				24			27												51
63-11773	TRACY, A GROUND IRRIGATION										39	6								91
63-136	BARKER BOISE R ¹ IRRIGATION			X	X	X		X	X	X			9							
63-137B	BARKER BOISE R ¹ IRRIGATION			X	X	X		X	X	X										
63-15070	PERKINS, GROUND DOMESTIC							X												
63-15071	PERKINS, GROUND DOMESTIC							X												
63-198AJ	DAVIS, TI BOISE R ¹ IRRIGATION							X	X											
63-198AJ	DAVIS, TI MORES C IRRIGATION							X	X											
63-199B	DAVIS, TI BOISE R ¹ IRRIGATION							X	X											
63-199B	DAVIS, TI MORES C IRRIGATION							X	X											
63-200A	BARKER BOISE R ¹ IRRIGATION			X	X	X		X	X	X										
63-200B	DAVIS, TI BOISE R ¹ IRRIGATION							X	X											
63-200B	DAVIS, TI MORES C IRRIGATION							X	X											
63-2106	UNITED S FIVEMILE IRRIGATION			X	X	X		X	X	X										
63-2109	UNITED S MASON C IRRIGATION							X	X											
63-233K	AMERICA BOISE R ¹ IRRIGATION			X	X	X		X	X	X										
63-2388A	UNITED S BOISE R ¹ IRRIGATION			X	X	X		X	X	X										
63-2392B	DRAINAC WASTE W IRRIGATION							X	X											
63-2392F	BOISE PR WASTE W IRRIGATION			X	X	X		X	X	X										
63-251A	UNITED S BOISE R ¹ IRRIGATION			X	X	X		X	X	X										
63-26671	BARKER BOISE R ¹ IRRIGATION																			
63-2968	FARWEST GROUND IRRIGATION							X	X											
63-30181	DAVIS, TI BOISE R ¹ IRRIGATION							X	X											
63-30181	DAVIS, TI MORES C IRRIGATION							X	X											
63-301A	UNITED S BOISE R ¹ IRRIGATION			X	X	X		X	X	X										
63-302A	UNITED S BOISE R ¹ IRRIGATION			X	X	X		X	X	X										
63-31288	AGEE, JO GROUND IRRIGATION																			10
63-31799	CHAN, JA GROUND IRRIGATION					0.4	34.6													19
63-31801	CHAN, JA GROUND IRRIGATION					0.4	34.6													19
63-32330	MEYERS, GROUND IRRIGATION					16														21
63-32695A	NAMPA & GROUND IRRIGATION							X	X											10
63-32695E	NAMPA & GROUND IRRIGATION							X	X											3.5
63-33251	BOISE PR INDIAN C IRRIGATION			X	X	X		X	X	X										3.5
63-33253	BOISE PR TENMILE IRRIGATION			X	X	X		X	X	X										37
63-33688	GIPSON, I GROUND IRRIGATION			11	3.8															14.8
63-33689	GIPSON, I GROUND IRRIGATION			27	2.2															29.2
63-33739	NAMPA & SPRINGS IRRIGATION							X	X											
63-34121	CARTER, GROUND IRRIGATION																			7.5
63-3597B	FARM CR GROUND IRRIGATION									37	40	10	10							97
63-3597K	FARM CR GROUND IRRIGATION					20	7													27
63-3597N	MILLAR, I GROUND IRRIGATION											30	29	39	39					137
63-372	BARKER BOISE R ¹ IRRIGATION			X																
63-373A	UNITED S BOISE R ¹ IRRIGATION			X	X	X		X	X	X										
63-7780	MILLAR, I GROUND DOMESTIC																			X

Same QQ, separate acres

Overlap, irrigation from a different well. <0.01 cfs/acre, not claimed

POINT OF DIVERSION COMPARISON

02N03W10

Basin/Seq	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
63-11722	PERKINS	GROUND WATER					X											
63-11773	TRACY, A	GROUND WATER						X										
63-15070	PERKINS	GROUND WATER					X											
63-15071	PERKINS	GROUND WATER					X											
63-31288	AGEE, JO	GROUND WATER															X	
63-32330	MEYERS	GROUND WATER								X								
63-32686	BARRON	GROUND WATER								X								
63-32690	BARRON	GROUND WATER								X								
63-32692	BARRON	GROUND WATER								X								
63-32694	BARRON	GROUND WATER								X								
63-33491	FRANK T	GROUND WATER								X								
63-33688	GIPSON, I	GROUND WATER	X															
63-33689	GIPSON, I	GROUND WATER	X															
63-34121	CARTER	GROUND WATER															X	
63-3597B	FARM CR	GROUND WATER						X										
63-3597K	FARM CR	GROUND WATER			X													
63-3597N	MILLAR, J	GROUND WATER										X						

Separate well on adjacent lot

Form 238-7
8/07

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IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0071704

Drilling Permit No. 972047-878104

Water right or injection well #: 63-34121

2. OWNER:

Name Jim Fay Valentine Page 2 of 3

Address 14284 W. Lewis Lane

City Nampa State ID Zip 83686

3. WELL LOCATION:

Twp 2 North ☒ or South ☐ Rge. 3 East ☐ or West ☒
Sec. 10 1/4 SW 1/4 SE 1/4

Gov't Lot _____ County Canyon

Lat. 43 31.063 (Deg and Decimal minutes)

Long. 116 40.757 (Deg and Decimal minutes)

Address of Well Site 14284 W Lewis Lane

City Nampa

Lot _____ Bk. _____ 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

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
					☐	☐	☐
					☐	☐	☐
					☐	☐	☐
					☐	☐	☐

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☐ N Method _____Manufactured screen ☐ Y ☐ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (inches)	Material	Gauge or Schedule

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

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) _____ Static water level (ft) _____

Water temp. (°F) _____ Bottom hole temp. (°F) _____

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)

Test method:

Pump	Bailer	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
13"	408'	413'	Tan Sandstone	X	
13"	413'	415'	Tan Clay		X
13"	415'	417'	Tan Sandstone	X	
13"	417'	437'	Tan Sandy Clay		X
13"	437'	444'	Sandstone	X	
13"	444'	455'	Blue Clay		X
13"	455'	457'	Blue & Black Sandstone	X	
13"	457'	492'	Blue Clay		X
13"	492'	503'	Baked Blue Clay		X
13"	503'	510'	Blue Sandstone	X	
13"	510'	514'	Blue Sandy Clay		X
13"	514'	535'	Blue Clay		X
13"	535'	538'	Blue Sandstone	X	
13"	538'	551'	Blue Clay		X
13"	551'	564'	Light Blue & White Clay		X
13"	564'	571'	Green & Black Sandstone	X	
13"	571'	573'	Blue Sandy Clay		X
13"	573'	577'	Sandstone	X	
13"	577'	579'	Blue Sandy Clay		X
13"	579'	580'	Sandstone	X	
13"	584'	587'	Sandstone	X	
13"	587'	592'	Blue Sandy Clay		X
13"	592'	596'	Sandstone		X
13"	596'	597'	Blue Sandy Clay		X
13"	597'	599'	Sandstone	X	
13"	599'	601'	Blue Sandy Clay		X
13"	601'	603'	Sandstone	X	
13"	603'	605'	Blue Clay		X
13"	605'	610'	Sand	X	
13"	610'	613'	Blue Clay		X

(Continued on Page 3)

Completed Depth (Measurable): 710 ft.

Date Started: 4/8/2016

Date Completed: 5/17/2016

14. DRILLER'S CERTIFICATION:

We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Post Drilling Inc.

Co. No. 670

*Principal Driller

Date 5/24/2016

*Driller

Date 5/24/2016

*Operator I

Date

Operator II

Date 5/24/2016

*Signature of Principal Driller and rig operator are required.

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6/07IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0071704

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Water right or injection well # 63-34121

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Name Jim Fay Valentine Page 3 of 3

Address 14284 W. Lewis Lane

City Nampa State ID Zip 83686

3. WELL LOCATION:

Twp. 2 North ☒ or South ☐ Rge. 3 East ☐ or West ☒

Sec. 10 1/4 SW 1/4 SE 1/4

Gov't Lot Canyon

Lat 43° 31.063 (Deg. and Decimal minutes)

Long. 116° 40.757 (Deg. and Decimal minutes)

Address of Well Site 14284 W Lewis Lane

City Nampa

Lot Bk. 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)	Placement method/procedure

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
					☐	☐	☐
					☐	☐	☐
					☐	☐	☐
					☐	☐	☐

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☐ N MethodManufactured screen ☐ Y ☐ N Type

Method of Installation

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule

Length of Headpipe Length of Tailpipe

Packer ☐ Y ☐ N Type

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method

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) Static water level (ft)

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

Describe access port

Well test:

Drawdown (feet)	Discharge or inflow (gpm)	Test duration (minutes)

Test method:

Pump	Boiler	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
13"	613'	616'	Sandstone	X	
13"	616'	624'	Blue Clay		X
13"	624'	631'	Sandstone	X	
13"	631'	654'	Blue Sandy Clay		X
13"	654'	658'	Sandstone	X	
13"	658'	662'	Blue Sandy Clay		X
13"	662'	667'	Sandstone	X	
13"	667'	670'	Blue Clay		X
13"	670'	672'	Sandstone	X	
13"	672'	683'	Blue Clay		X
13"	683'	694'	Sandstone	X	
13"	694'	695'	Baked Blue Clay		X
13"	695'	698'	Blue Sandy Clay		X
13"	698'	705'	Sandstone	X	
13"	705'	710'	Blue Clay		X

RECEIVED

JUL 11 2016

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 710 ft.

Date Started: 4/8/2016

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 Post Drilling Inc.

Co No. 670

Principal Driller

Date 5/24/2016

Driver

Date 5/24/2016

Operator II

Date

Operator I

Date 5/24/2016

* Signature of Principal Driller and rig operator are required.