

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. 63-32152

1. Owner David Compas Phone No. 801-390-0496
Current address 31811 Parma Rd, Parma, ID 83660
2. Examiner's name Cody Parker EXAM DATE 08/15/2017
3. Accompanied by David Compas Email _____
Address _____
Relationship to permit holder _____ Phone No. _____
4. Source Groundwater tributary to _____

B. OVERLAP REVIEW

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

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
			NE	NE	28	06N	05W	Canyon	GPS, Digital PLS Map

2. Place(s) of Use: Method of determination Aerial Imagery, 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	
06N	05W	28	4.8																4.8

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
D0039406		5			

*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

2. **Measurements:** _____

Nelson sprinklers in pasture: Brown plate w/ yellow nozzle = 1.68 gpm/sprinkler head

Fixed sprinklers in pasture: 7/32" nozzle @ ~60 psi max = 11.05 gpm/ sprinkler head

Micro sprinkler irrigation in orchard: 0.75 gpm/ sprinkler head

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.[illegible]

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

Max Diversion:

3 fixed sprinklers x 11.05 gpm/head + 9 Nelson sprinklers x 1.68 gpm/sprinkler = 48.27 gpm = 0.11 cfs

4.8 acres x 0.03 cfs/acre = 0.14 cfs (BU Standard)

0.12 cfs (Permit)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.8 \text{ acres} \times 4.5 \text{ afa/acre} = 21.6 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.11 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 56.7 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 21.6 \text{ afa}$$

2. Volume Calculations for Other Uses:

No other uses

H. RECOMMENDATIONS

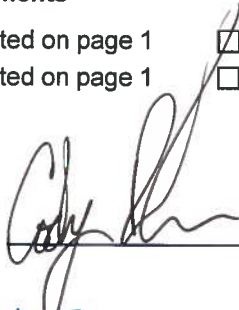
1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	03/01	11/15	0.11 cfs	21.6 afa
Totals:			0.11 cfs	21.6 afa

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 08/15/2017

Reviewer



Date 9/11/17

SEAL

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

NARRATIVE

Permit 63-32152 was approved on June 9, 2009, authorizing the diversion of 0.12 cfs from groundwater to irrigate 5.8 acres. Proof of beneficial use was submitted for the permit on May 23, 2014. On August 15, 2017 I (WRA Cody Parker) visited the site as part of the field examination for the permit.

The POD for the permit is a 6", 364-ft deep well with tag number D0039406. GPS coordinates for the well are N 43°50'00.9" by W 116°56'07.5". Water is diverted from the well using a 5 hp pump at a maximum of 60 psi into 1 ½" PVC which leads into the same size polyline. The well supplies water to small (0.75 gpm) sprinkler heads watering ~1 acre of orchards, and to larger sprinklers irrigating up to 3.8 additional acres of lawn and pasture. Both the place of use and point of diversion are located within the NENE of Sec 28, T06N, R05W, of Canyon County, B.M. There are no other uses of the well nor are there other irrigation rights or surface water used to irrigate the place of use.

The system is broken up into 22 zones of irrigation: 3 zones for the orchards, 7 zones for landscaping and the lawn area, and an additional 12 zones in the pasture north of the house. The owner says he can run 2 zones at a time at the pasture, which is where the peak diversion rate occurs. Within any two of these zones there are 3 fixed sprinkler heads with 7/32" nozzles and 9 Nelson sprinkler heads with brown plates and orange nozzles. At 60 psi, these sprinklers produce 11.05 gpm and 1.68 gpm respectively. Adding the diversion rates for all sprinklers within two zones gives a max diversion rate of 48.27 gpm or 0.11 cfs, which is the rate recommended for the license. The annual volume is 21.6 afa which is the number of irrigated acres (4.8 acres measured from aerial imagery) multiplied by the headgate requirement (4.5 afa/acre).

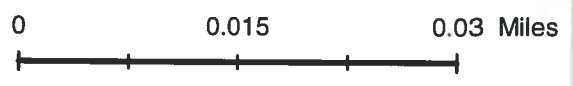


NENE

28

NWN

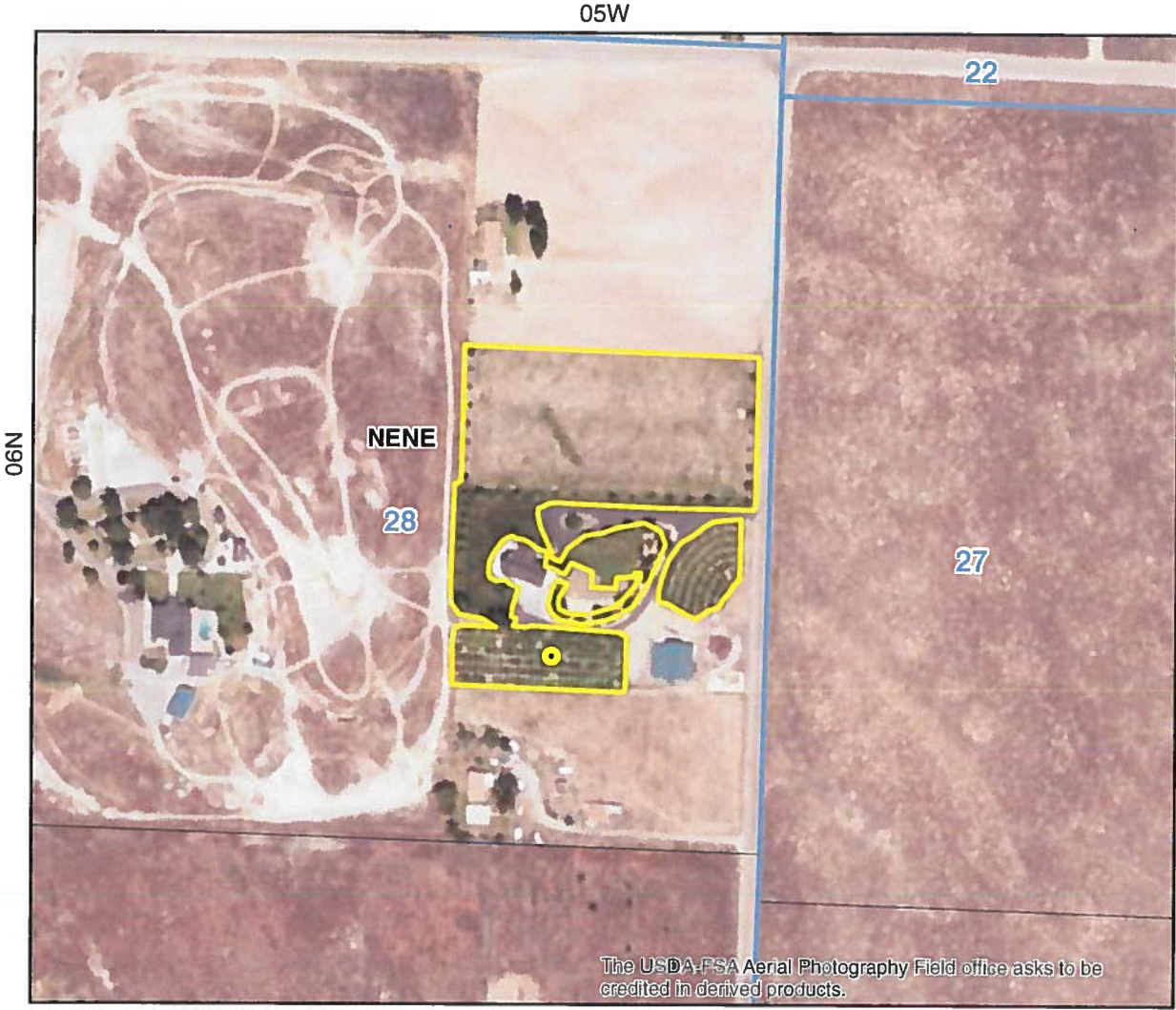
- Well
- Lines of fixed sprinklers w/ 7/32" nozzles
- Nelson sprinklers, brown plate, orange nozzle
- Pop up RainBirds on 7 zones
- 3/4 gpm sprinklers watering orchard



A-FSA Aerial Photography Field office asks to be credited in derived products.

State of Idaho
Department of Water Resources
Attachment to Water Right License
63-32152

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.035 0.07 0.14 Miles



STATE OF IDAHO
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Figure 1 The irrigation well with tag no. D0039406.



Figure 2 Rain Bird pop-up sprinklers used to irrigate lawn and landscaping.

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Figure 3 The Nelson sprinklers used at the boundary of the pasture. The brown plate and orange nozzle can be seen here.

Basin	Seq	Owner	Source	Use
63-10219		HILLIARD, I	GROUND V	IRRIGATION
63-10278		HILLIARD, I	GROUND V	IRRIGATION
63-11226		BARTON, F	GROUND V	IRRIGATION
63-21619		NEDBALEK, G	ROUND V	DOMESTIC
63-21619		NEDBALEK, G	ROUND V	STOCKWAT
63-2322		UNITED ST. ELIJAH S	O	IRRIGATION
63-2322		UNITED ST. WILSON S	L	IRRIGATION
63-23746		PAUL, H	ELI GROUND V	DOMESTIC
63-23960		WALZ, M	A	GROUND V DOMESTIC
63-27309		LEIGH, N	A	GROUND V DOMESTIC
63-27310		LEIGH, N	E	GROUND V DOMESTIC
63-27310		LEIGH, N	E	GROUND V STOCKWAT
63-28031		EDWARDS	G	ROUND V DOMESTIC
63-28031		EDWARDS	G	ROUND V STOCKWAT
63-2878		BLACK CAN ELIJAH D	R	A
63-2878		BLACK CAN WILSON D	I	A
63-28907		MALSON, F	G	ROUND V DOMESTIC
63-31284		HILLIARD, I	G	ROUND V DOMESTIC
63-32152		COMPAS, I	G	ROUND V IRRIGATION
63-8633		UNIVERSIT	G	ROUND V IRRIGATION
63-9638		HILLIARD, I	G	ROUND V IRRIGATION
65-2433		UNITED ST. PAYETTE R	I	A
65-2900		BLACK CAN TUNNEL N	I	A

NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
													31			31
												20				20
											7					7
						X										
						X										
	X			X	X	X	X	X	X	X	X					
	X			X	X	X	X	X	X	X	X					
											X					
											X					
											X					
											X					
											X					
										X						
										X						
	X			X	X	X	X	X	X	X	X					
	X			X	X	X	X	X	X	X	X					
X																
															X	
4.8																4.8
			21													21
														38	34	72
	X			X	X	X	X	X	X	X	X					
	X			X	X	X	X	X	X	X	X					

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0039406

DRILLING PERMIT NO. _____

Water Right or Injection Well No. _____

2. OWNER:

Name Kent B. & Shari L. Johnson

Address 31811 Parma Road

City Parma State Id Zip 83660

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 06 North ☒ or South ☐

Rge. 05 East ☐ or West ☒

Sec. 28 1/4 NE 1/4 NE 1/4

Gov't Lot _____ County Canyon

Lat: _____ Long: _____

Address of Well Site Same as above

City _____

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Perma Plug				Placed dry in
Bentonite	2	20	800#	annular space

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 355'

Was drive shoe seal tested? ☒ Y ☐ N How? Bailed down

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	2'1 1/2'	355'	.25	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

158 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

Well Cap _____

834297

Office Use Only

Well ID No. 404838

Inspected by _____

Twp _____ Rge _____ Sec _____

1/4 1/4 1/4

Lat: _____ Long: _____

12. WELL TESTS:

☐ Pump ☒ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
20	17	175	1
50	34	192 est.	4

Water Temp. 68

Bottom hole temp. _____

Water Quality test or comments: 8 grains hard

Depth first Water Encounter 112

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	2	Soil		X
10	2	20	Brown Sand w/ Clay		X
6	20	33	Brown Sand w/ Clay		X
6	33	45	Yellow Clay		X
6	45	55	Brown Sand & Gravel		X
6	55	82	Brown Sand		X
6	82	105	Brown Clay		X
6	105	112	Brown Clay w/ Sand		X
6	112	126	Brown Sand	X	
6	126	160	Light Brown Clay		X
6	160	165	Brown Sand	X	
6	165	186	Brown Clay Sticky		X
6	186	234	Brown Sand Coarse on Bottom		X
6	234	257	Brown Clay		X
6	257	280	Brown Sand Fine	X	
6	280	314	Blue Clay		X
6	314	317	Black Sand Fine	X	
6	317	350	Blue Clay		X
6	350	351	Black Sand Heaving	X	
6	351	364	Blue Clay		X
6	364	?	Black Sand & Pea Gravel	X	

RECEIVED

AUG 12 2005

WATER RESOURCES
WESTERN REGION

Completed Depth 364' (Measurable)

Date: Started 26 June 2005 Completed 14 July 05

14. DRILLER'S CERTIFICATION

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

Gary Duspiva Well
Company Name Drilling & Development Firm No. 395

Principal Driller Gary Duspiva Date 10 July 05

and Driller or Operator II _____ Date _____

Operator I Eric Duspiva Date 10 July 05

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator I.

63-32152

FORWARD WHITE COPY TO WATER RESOURCES