

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. 63-340631. Owner Thomas Brown; Craig Brown Phone No. 860-710-2554Current address 5615 S Hawk Ridge Ave, Caldwell, ID 836072. Examiner's name Cody Parker EXAM DATE April 13, 20183. Accompanied by Craig Brown Email _____Address SameRelationship to permit holder Same Phone No. _____4. Source Groundwater tributary to _____**B. OVERLAP REVIEW**1. Other water rights with the same place of use None2. Other water rights with the same source and point of diversion None (domestic use)**C. DIVERSION AND DELIVERY SYSTEM**

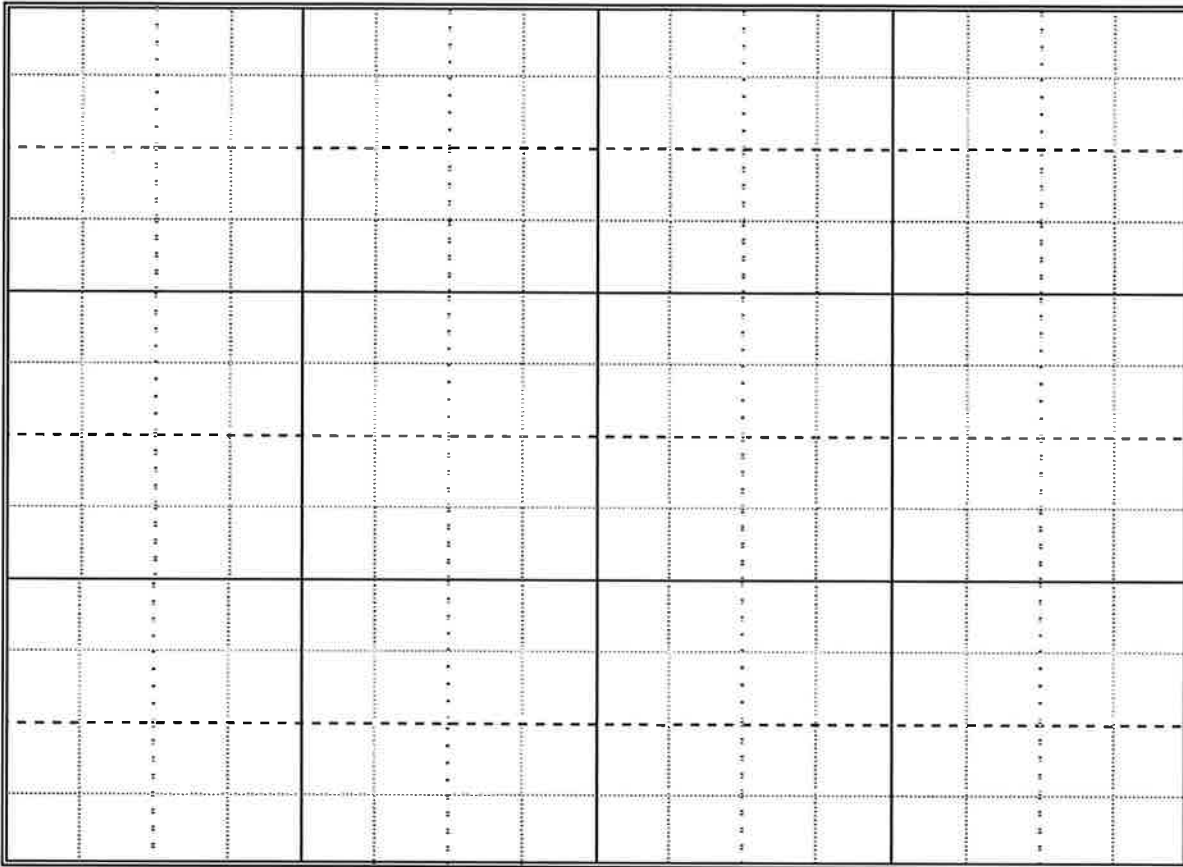
1. Point(s) of Diversion:

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks
			NW	SE	36	06N	03W	Gem	GPS, digital PLS

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	03W	36									0.4					3.8			4.2

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
Tag No D0053528		2			2"

*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:** _____

10 sprinkler zones, 4 sprinklers/zone on zones 9 and 10, 5 sprinklers/zone on the rest

9/64" nozzle diameters, pressure reduced to 35 psi at the sprinkler heads, 3.4 gpm per head

~500 ft of 2 inch mainline, reduced to 1 1/4" then to 1" in each zone, minor drip irrigation for trees and garden

E. NARRATIVE/REMARKS/COMMENTS

This permit authorizes 0.15 cfs from groundwater to irrigate 5 acres. Proof was submitted on May 25, 2017. I completed this field exam on April 13, 2018, accompanied by Craig Brown.

The point of diversion is a 6" well with metal tag no. D0053528. The well is located at N 43 48'48.1" by W 116 38'25.1" in the NWSE of Sec 36, T 06N, R03W, B.M. Water is diverted from the well using a 2-hp pump to a 2" galvanized pipe at 60 psi. The well provides water for domestic and minor stockwater uses as well as the irrigation described on the permit. The galvanized pipe leads into a 2" pvc mainline for the irrigation which consists of 10 zones.

Zone 10 is primarily pop-up sprinklers in the lawn surrounding the home. The other 9 zones consist of above-ground rotator sprinklers with 9/64" nozzles. The pressure is reduced to 35 psi at the sprinkler heads and discharge from the heads is approximately 3.4 gpm. From each sprinkler valve, the pipe diameter stays at 2", then is reduced to 1 1/4", then to 1".

I estimate the capacity of the pumping system to be 0.04 cfs. Based on the sprinkler head information, the maximum diversion rate for the irrigation system is 0.04 cfs. The system is the most limiting factor, so I have recommended 0.04 cfs for the permit.

The permit does not describe the 0.4 acres of irrigation in the NESW. The right will require an amendment at licensing to update the POU description. The irrigation is reduced from the 5.0 acres listed on the permit to 4.2 acres that were actually developed. The annual volume I recommend is based on the headgate requirement.

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:

4.2 acres x 0.03 cfs/acre = 0.13 cfs

9/64" nozzles @ 35 psi = 3.4 gpm/head x 5 heads = 17 gpm = 0.04 cfs (recommended)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.2 \text{ acres} \times 4.5 \text{ afa/acre} = 18.9 \text{ afa}$ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.04 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 20.6 \text{ afa}$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 18.9 \text{ afa}$

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	0.04 cfs	18.9 afa
Totals:			0.04 cfs	18.9 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 5-16-18

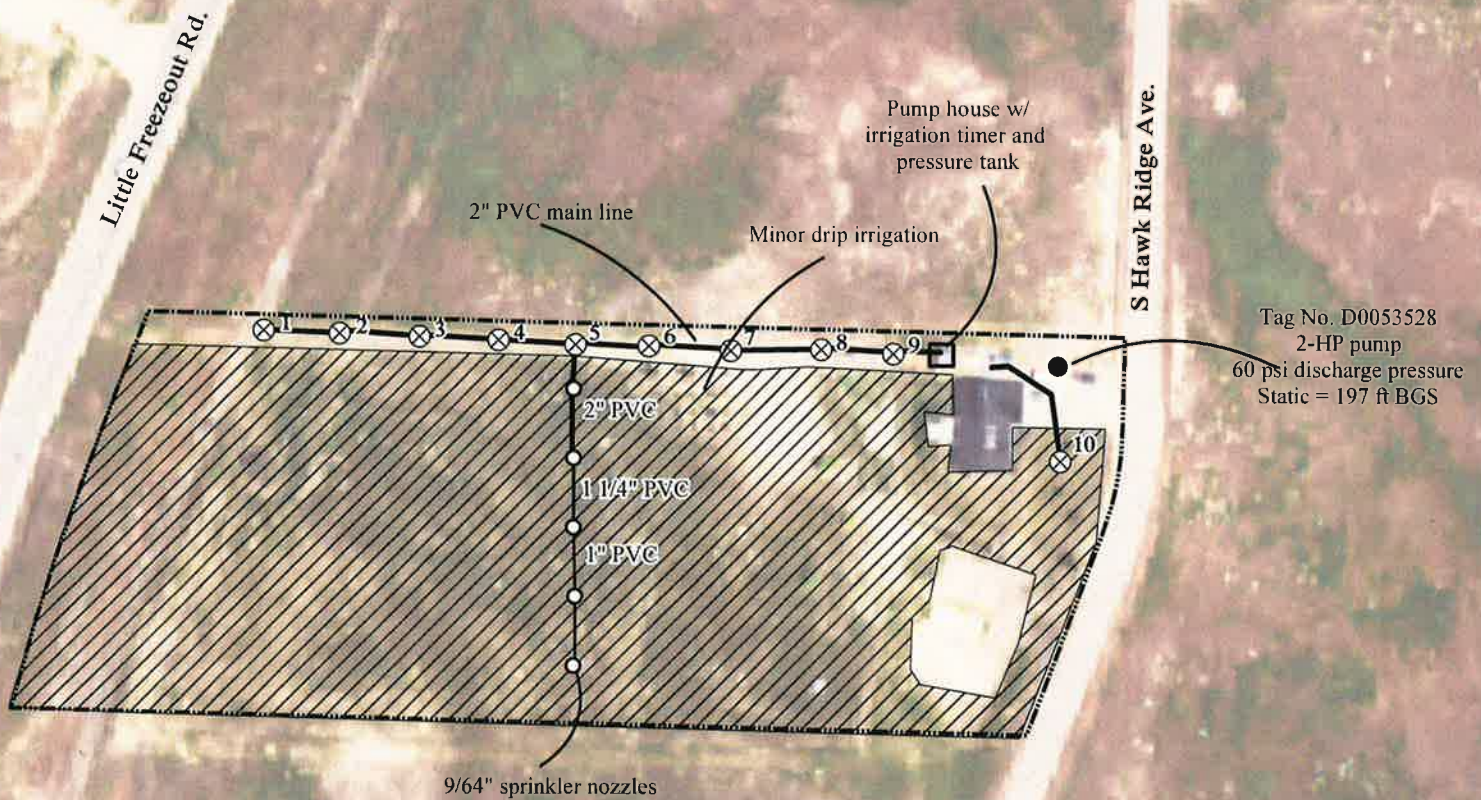
Reviewer

Date 5/16/18

SEAL

Beneficial Use Field Report

System Diagram



LEGEND

- 6" well
- ⊗ Sprinkler zone control valve
- ▨ Irrigated acreage
- - - Property boundary

N



0 0.025 0.05 Miles

Rate and Volume Calculations

Diversion Rate:

- 4.1 acres x 0.03 cfs/acre = 0.12 cfs
- 9/64" nozzles at 35 psi = 3.4 gpm/head x 5 heads = 17 gpm = 0.04 cfs

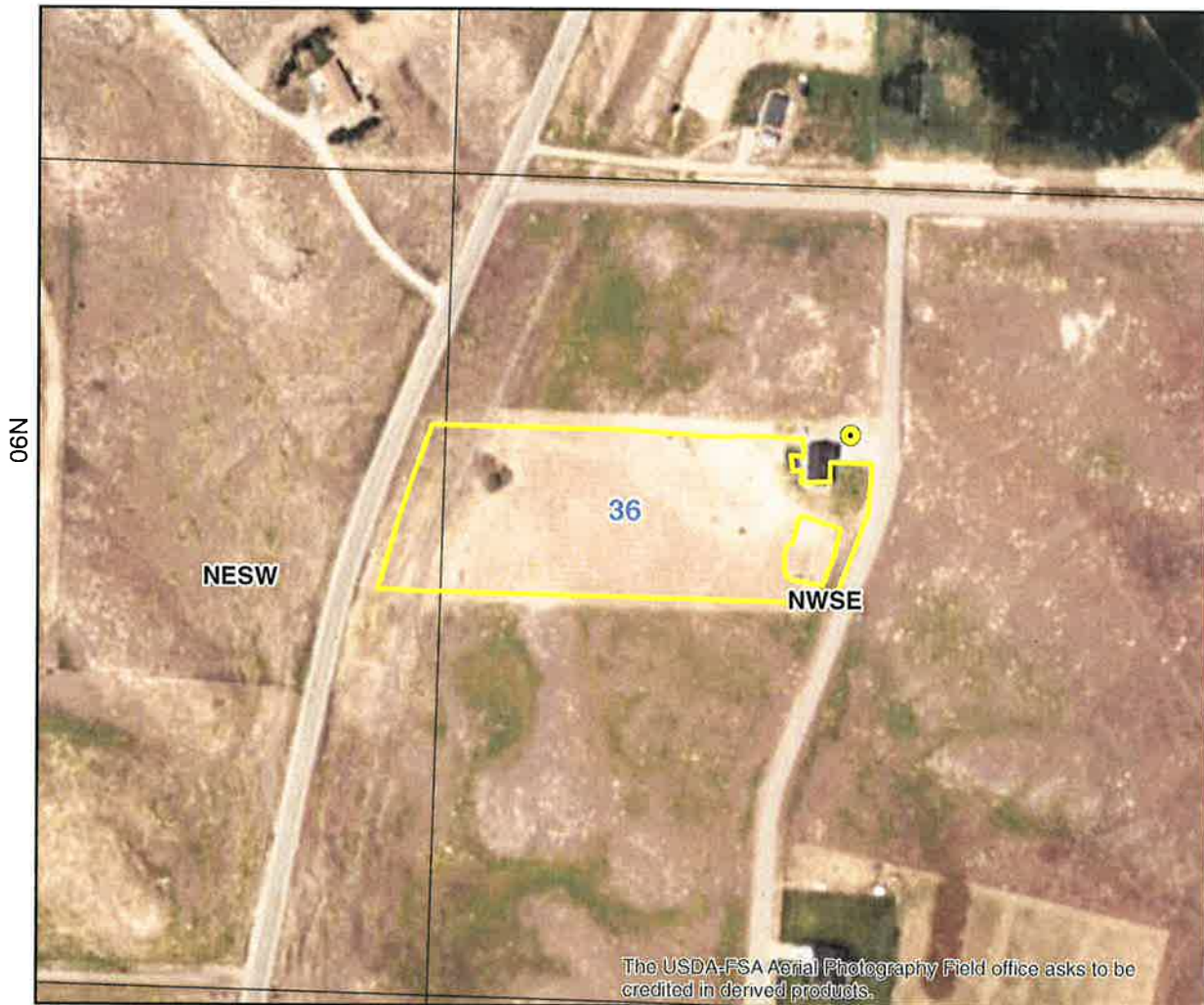
Annual Volume

- 0.04 cfs x 260 days x 1.9835 = 20.6 afa
- 4.1 acres x 4.5 afa/acre = 18.5 afa

State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-34063

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.

03W



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

0 0.035 0.07 0.14 Miles



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT
Picture Attachment

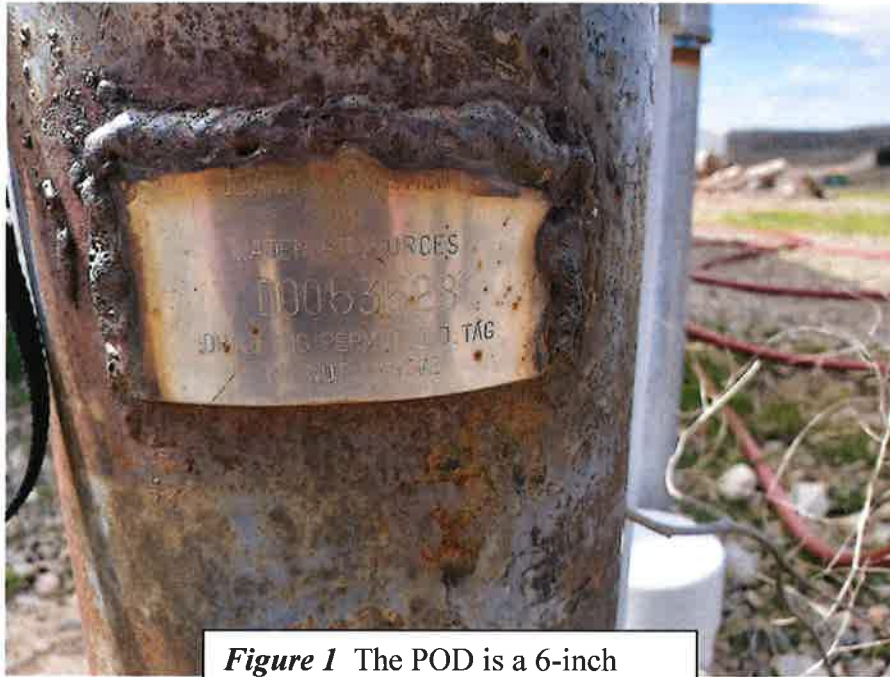


Figure 1 The POD is a 6-inch well with metal tag no. D0053528

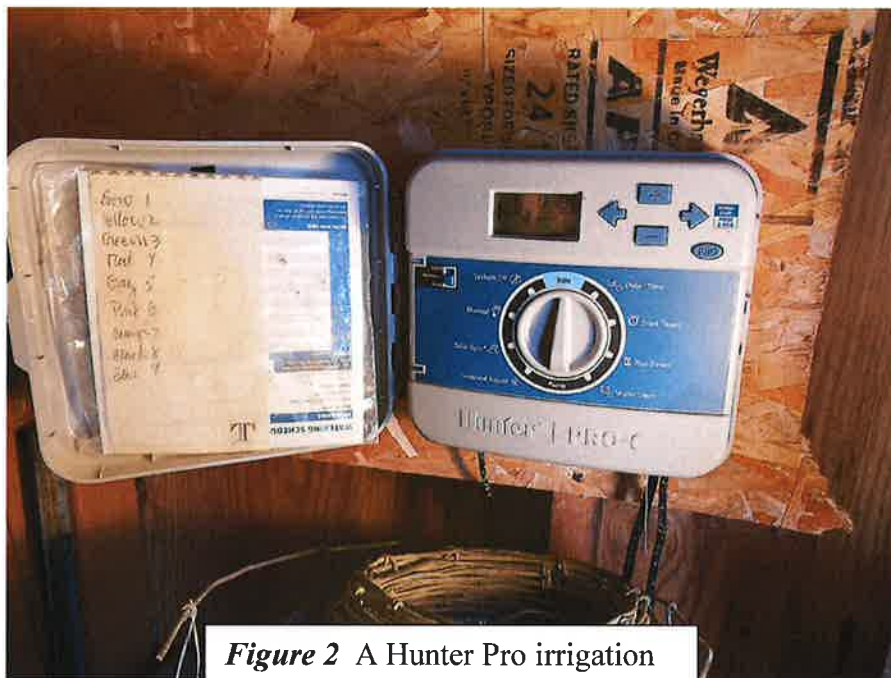


Figure 2 A Hunter Pro irrigation timer controls the irrigation of the 10 zones.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
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Picture Attachment



Figure 3 One of the ten irrigation valves controlled by the timer. 2-inch mainline.

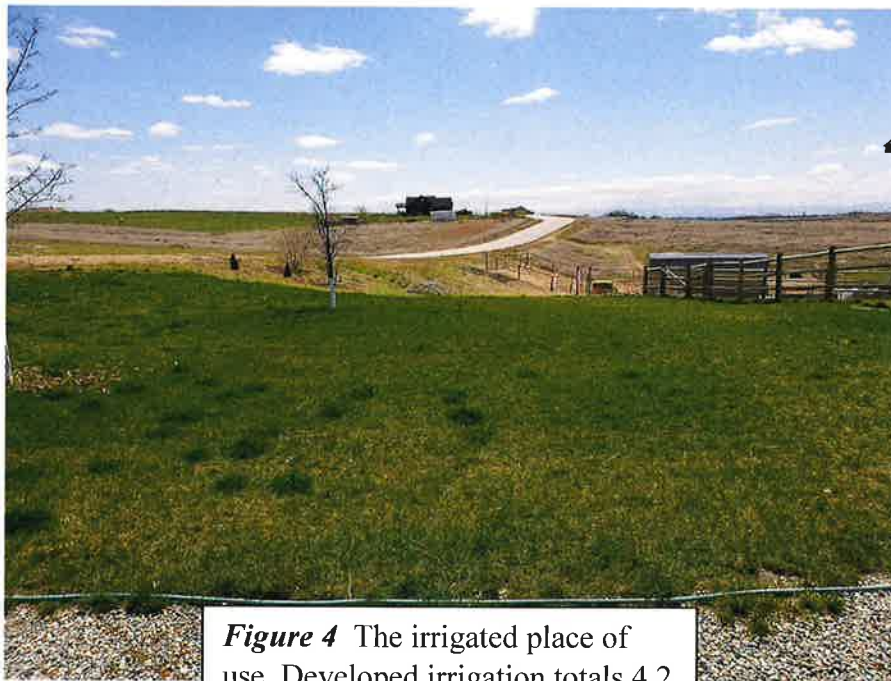


Figure 4 The irrigated place of use. Developed irrigation totals 4.2 acres.

*** CORRECTED ***
IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

857389

1. WELL TAG NO. D 0053528

Drilling Permit No. _____

Water right or injection well # _____

2. OWNER

Name **Carl & Laura Post**

Address **745 Indian Valley Rd.**

City **Indian Valley** State **ID** Zip **83632**

3. WELL LOCATION:

Twp. **6** North ☒ or South ☐ Rge. **3** East ☐ or West ☒

Sec. **36** 1/4 **NW** 1/4 **SE** 1/4

Gov't Lot _____ County **Gem**

Lat. **43° 48.80'** (Deg. and Decimal minutes)

Long. **116° 38.41'** (Deg. and Decimal minutes)

Address of Well Site **S. Hawk Ridge Ave. - 5615**

City **Caldwell**

Lot **28** Blk. **1** Sub. Name **High Vista Estate**

4. USE:

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

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ 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
3/4" Bent.	0	150'	3000 lbs	Tagged In
Chips				
Bent Grout	150'	322'	344 gals.	Poured in Tremie

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6"	+2'	61'	.250	Steel	☒	☐	☐	☒
6"	61'	341'		SDR 17 PVC	☒	☐	☒	☐

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☐ N Method _____

Manufactured screen ☒ Y ☐ N Type **PVC Certainteed**

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
341'	381'	.020		6"	PVC	SDR17

Length of Headpipe **0**

Length of Tailpipe **0**

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
8-16 Sand	322'	381'	1180 lbs	Tagged in Place

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) **N/A**

Describe control device **N/A**

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) **239 ft.** Static water level (ft) **197'**

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

Describe access port **Cap**

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
178 ft.	100 gpm	180 min.	☐	☐	☒	☐
4 ft.	50 gpm	360 min.				

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
10"	0	2	Top Soil	X
10"	2	19	Hard Pan	X
10"	19	26	Sand	X
10"	26	32	Tan Clay	X
10"	32	35	Sand	X
10"	35	43	Tan Clay	X
10"	43	74	Sand	X
10"	74	76	Tan Clay	X
10"	76	80	Sand	X
10"	80	82	Tan Clay	X
10"	82	93	Sand	X
10"	93	239	Tan Clay with Sand Strips	X
10"	239	250	Coarse Sand	X
10"	250	263	Clay	X
10"	263	321	Clay with Sand Strips	X
10"	321	338	Coarse Sand	X
10"	338	355	Tan Clay with Sand Strips	X
10"	355	370	Sand	X
10"	370	371	Tan Clay	X
10"	371	381	Sand	X
10"	381	---	Blue Clay	X

RECEIVED

OCT 03 2011

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable) **381 ft.**

Date: Started **8/17/2009** Completed **8/20/2009**

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 **Treasure Valley Drilling** Co. No. **560**

*Principal Driller **George Post** Date **8-27-09**

*Driller **Garrett Post** Date **8-27-09**

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

STATE OF IDAHO
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06N03W36

Basin/Seq	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-33447	CLARK, J	GROUND	IRRIGATION		5.6															5.6
63-33448	CLARK, J	GROUND	IRRIGATION		5															5
63-33449	CLARK, J	GROUND	IRRIGATION		4.6															4.6
63-33450	CLARK, J	GROUND	IRRIGATION		5.1															5.1
63-33517	CLARK, J	GROUND	IRRIGATION	15	3.6	22.5	40									22.5				103.6
63-33517	CLARK, J	GROUND	STOCKWATER	X	X	X	X									X				
63-33518	CLARK, J	GROUND	IRRIGATION	25.1	4.5															29.6
63-33604	RAYNE, N	GROUND	DOMESTIC																X	
63-33604	RAYNE, N	GROUND	IRRIGATION																3.3	
63-33628	BURGESS	GROUND	IRRIGATION										25	8	6			1.7	3.4	39
63-33835	BROWN, J	GROUND	IRRIGATION													1.5				5.1
63-33992	CLARK, J	GROUND	STOCKWATER	*												X				1.5
63-34027	CLARK, J	GROUND	IRRIGATION			3.5														
63-34063	BROWN, GROUND	IRRIGATION										0.4					3.7			3.5
63-34175	CALKINS	GROUND	IRRIGATION									26	11.8							4.1
63-34493	CLARK, J	GROUND	IRRIGATION		1.7															37.8
63-34533	CLARK, J	GROUND	IRRIGATION		3															1.7
63-8269A	BENEDIC	GROUND	IRRIGATION												10					3
63-8269B	CALKINS	GROUND	IRRIGATION									1	3.2							10
																				4.2

Irrigation of separate area in same QQ, no overlap



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

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 2, 2018

THOMAS AND CRAIG BROWN
5615 S HAWK RIDGE AVE
CALDWELL ID 83607

RE: Water right permit no. 63-34063

Dear Permit Holder:

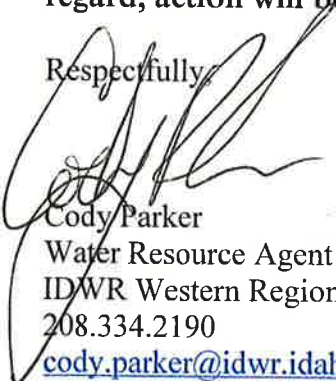
We are planning to conduct water right examinations in the vicinity of the permit referenced above **this season**. An examination is needed to verify the water use in order to issue a water right license.

The details of the permit referenced above can be found in the enclosed water permit report. **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 you have ceased using the water and have no further interest in pursuing a water right, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

Please contact me within the next thirty (30) days at 208-334-2190 to either schedule an examination or submit a relinquishment form. If you do not make a timely response in this regard, action will be taken to void the permit.

Respectfully,



Cody Parker
Water Resource Agent
IDWR Western Region
208.334.2190
cody.parker@idwr.idaho.gov

Enclosed: Water right report and map
Relinquishment form