

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. 63-333671. Owner George & Theresa BockPhone No. 208-459-4017Current address 2664 Sand Hollow Rd, Caldwell, ID 836072. Examiner's name Cody ParkerEXAM DATE May 10, 20183. Accompanied by George Bock

Email _____

Address _____

Relationship to permit holder Owner

Phone No. _____

4. Source Groundwater

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use 63-322802. Other water rights with the same source and point of diversion 63-32280**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

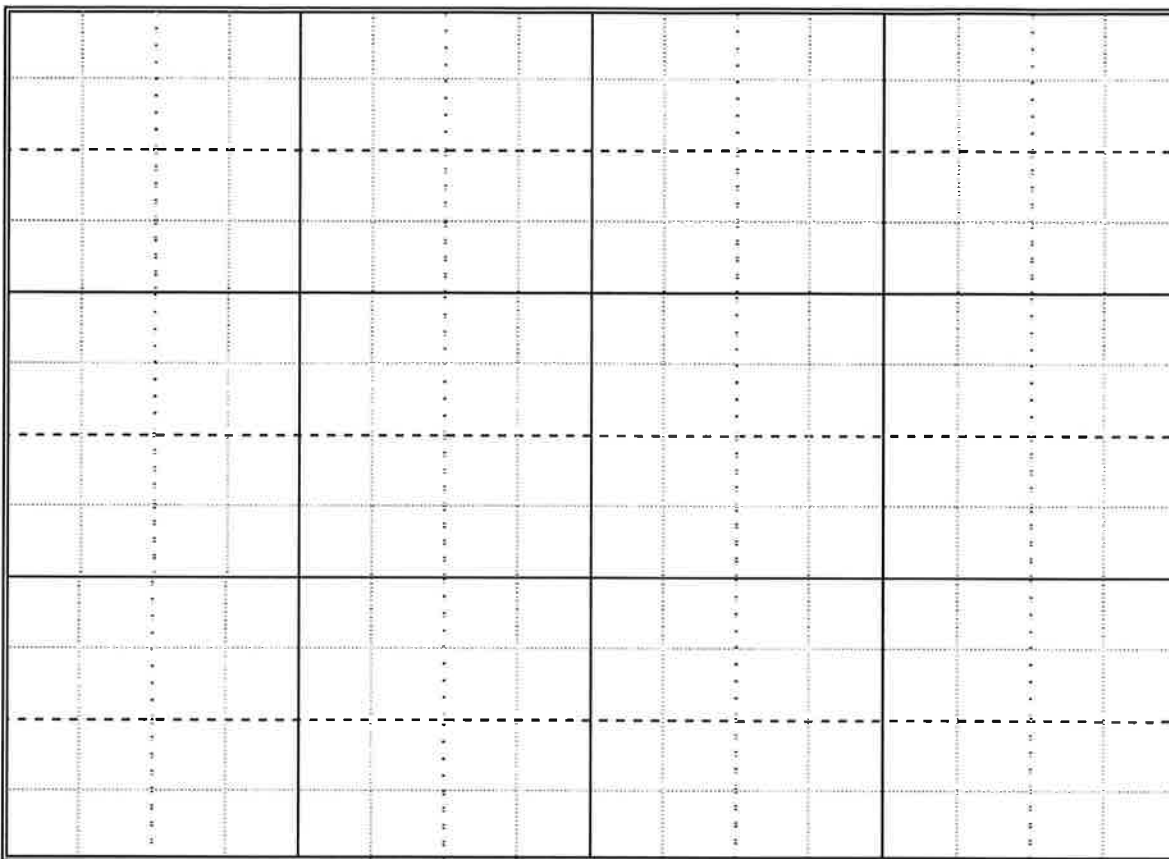
Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			SW	SW	12	06N	04W	Payette	GPS, digital PLS

2. Place(s) of Use:

Method of determination Aerial imagery, site visit, digital PLS

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	04W	12											0.3						0.3

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. D0057733		3		Franklin	17H22 31 00305H

*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
None						

2. **Measurements:** _____

11 sprinklers, 2 nozzles/sprinkler (7/32" and 1/2"), operating pressure @ 25 psi, 2 sprinklers run at once

E. NARRATIVE/REMARKS/COMMENTS

This permit authorizes the diversion of 0.11 cfs groundwater to irrigate up to 5.5 acres. Proof was submitted on November 2, 2015. I completed the field exam on May 10, 2018, accompanied by George Bock the owner. The property is located off of Sand Hollow Rd east of Highway 84 at the Black Canyon Exit.

The point of diversion is a 6" well with metal tag no. D0057733. The well is located at N 43 52'07.1" by W 116 46'05.2" in the SWSW of Sec 12, T06N, R04W, B.M. A 3-hp pump with VFD diverts water from the well to a 2-inch mainline at 25 psi operating pressure. The mainline feeds 11 risers with impact sprinklers which water roughly 2.3 acres.

There are a total of 2.3 acres of developed irrigation for this permit. No irrigation was developed in the SESW. Of the 2.3 acres, irrigation under right 63-32280 overlaps 2 acres. Right 63-32280 also lists the same point of diversion. Therefore, this new license is recommended for the 0.3 acres not included on right 63-32280. The diversion rate I have recommended for the license is based on the 0.03 cfs/acre BU Standard limit. The volume is based on the headgate requirement (4.5 afa/acre).

Based on the pump curve information, at 25 psi and 238 to 278 ft of lift, the pump should put out a maximum of 0.07 cfs. Right 63-32280 already authorizes 0.07 cfs from the same well. Therefore, the 0.01 cfs recommended for this license does not add to the total rate diverted from the well. An x35 condition should be added to this license.

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?

X35 => combined with right 63-32280 should not exceed 0.07 cfs

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

System: $Q = (8.8 \times 0.7 \times 3\text{hp}) / (180 \text{ ft} + 2.31 \times 25 \text{ psi}) = 0.078 \text{ cfs}$ (TDH based on SWL, upper estimate) $Q = (8.8 \times 0.7 \times 3\text{hp}) / (220 \text{ ft} + 2.31 \times 25 \text{ psi}) = 0.067 \text{ cfs}$ (TDH based on well log drawdown, lower estimate)

Pump curve = 32 gpm = 0.07 cfs

BU Standard: 2.3 acres irrigation developed - 2 acres overlap w/ 63-32280 (same POD) = 0.3 acres

0.3 acres $\times$ 0.03 cfs/acre = 0.01 cfs (recommended)**G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

 $V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.3 \text{ acres} \times 4.5 \text{ afa/acre} = 1.4 \text{ afa}$ $V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.01 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 5.2 \text{ afa}$ $V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = 1.4$

2. Volume Calculations for Other Uses:

No other uses

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Irrigation	03/01	11/15	0.01 cfs	1.4 afa
Totals:			0.01 cfs	1.4 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

8-17-18

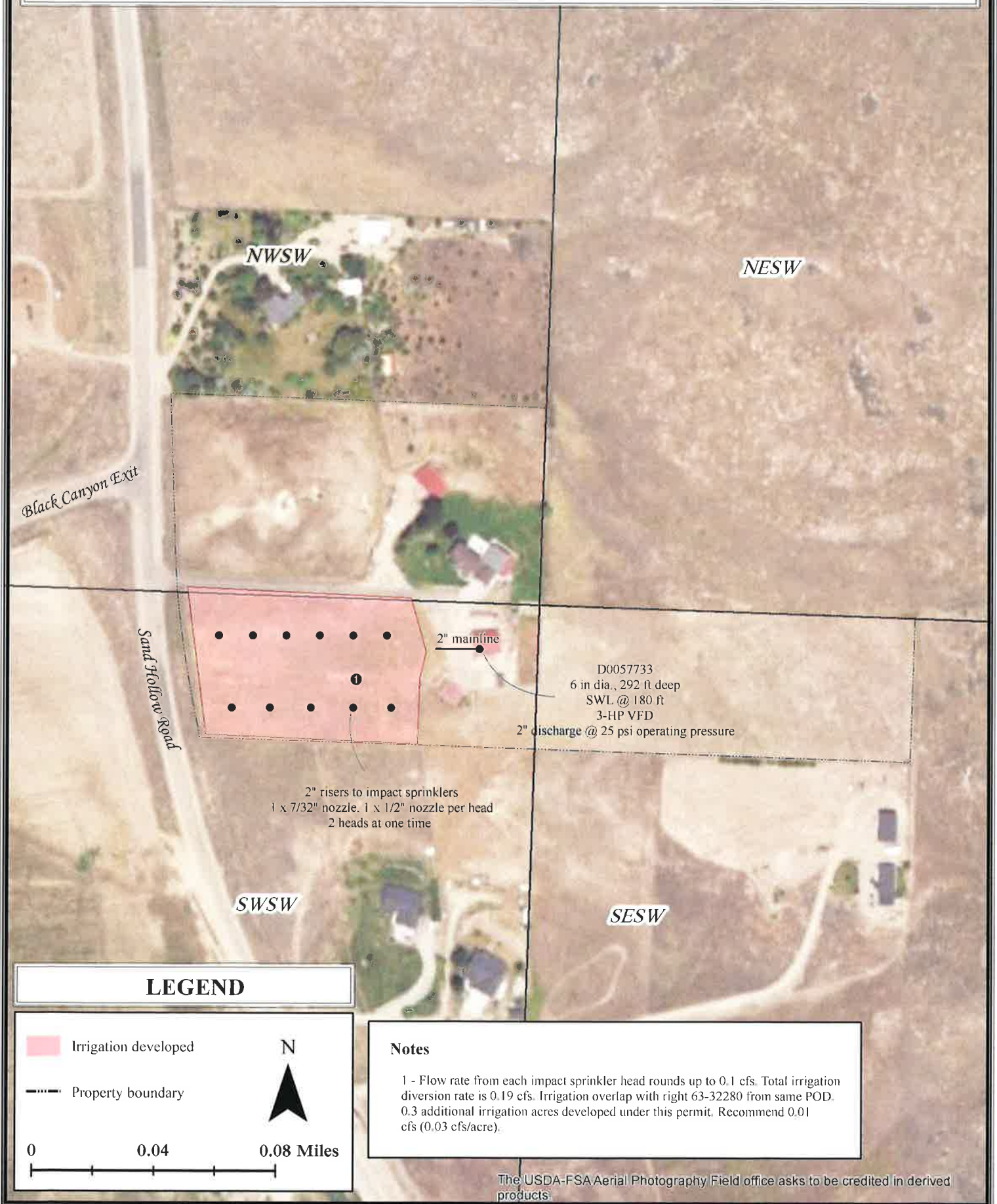
SEAL

Reviewer

Date

Beneficial Use Field Report

System Diagram



State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-33367

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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Picture Attachment



Figure 1 The well w/ metal tag no. D0057733.



Figure 2 A full shot of the well with a connected hydrant and the irrigation control valve.

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



Figure 3 2" risers come off of the mainline and feed water to impact sprinklers. The risers are welded to old well casing for stability.

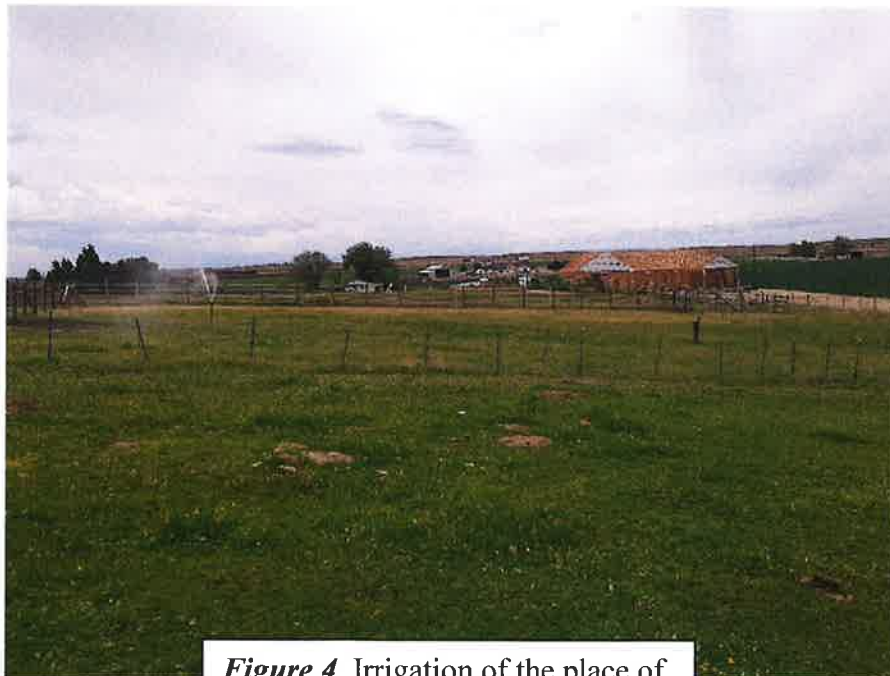
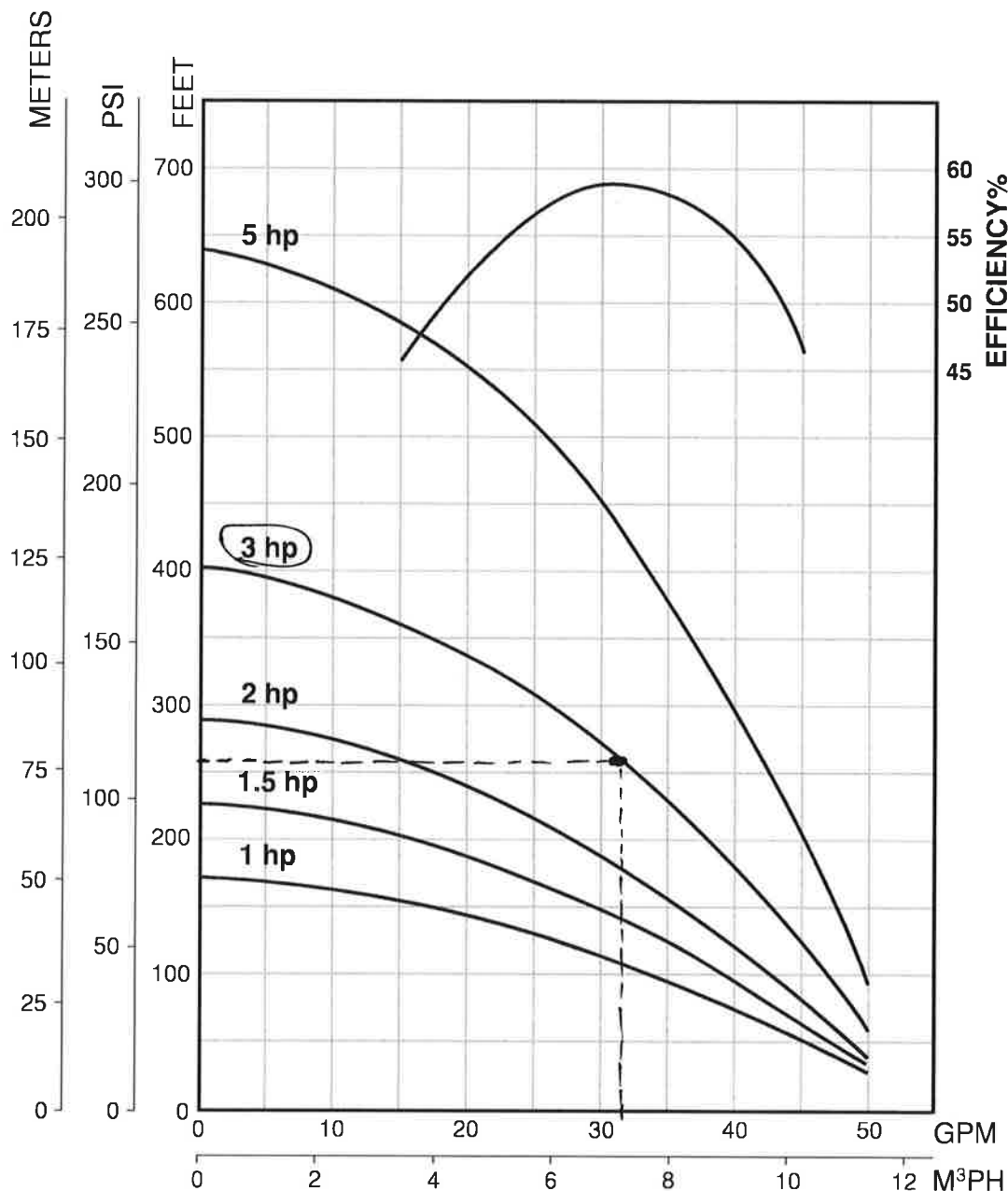


Figure 4 Irrigation of the place of use.

4" Submersible Pumps

FPS 4400 High Capacity 35 GPM Performance Curves



Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

$$\sim 32 \text{ gpm} = 0.07 \text{ cfs}$$

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 005733 D0057733

Drilling Permit No. _____

Water right or injection well # 63-32280

2. OWNER:

Name George Bochk & Teresa Bochk

Address 2664 Sand Hollow Rd.

City Caldwell State Id Zip 83607

3. WELL LOCATION:

Twp. 6 North ☒ or South ☐ Rge. 4 East ☐ or West ☒

Sec. 12 NW 1/4 SW 1/4 SW 1/4

Gov't Lot _____ County Payette

Lat. 43 ° 52 : 11.3 (Deg. and Decimal minutes)

Long. 116 ° 46 : 08.4 (Deg. and Decimal minutes)

Address of Well Site 2664 Sand Hollow Rd.

City Caldwell ID

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

Lot _____ Blk. _____ Sub. Name _____

4. USE:

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

☐ Other None, Irrigation?

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
<u>Bentonite</u>	<u>0</u>	<u>38</u>	<u>1,200</u>	<u>Dry pour</u>
<u>3/B</u>				

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
<u>6"</u>	<u>+2</u>	<u>289</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒
					☐	☐	☐
					☐	☐	☐
					☐	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 289

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method Factory

Manufactured screen ☒ Y ☐ N Type Factory 4 1/2" Plastic

Method of installation SET IN

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>272</u>	<u>292</u>	<u>20m</u>		<u>4 1/2"</u>	<u>Plastic</u>	<u>40</u>

Length of Headpipe 0 Length of Tailpipe 0

Packer ☒ Y ☐ N Type 5 packer

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) 0

Describe control device 0

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 145 Static water level (ft) 180

Water temp. (°F) 85° or less Bottom hole temp. (°F) 85° or less

Describe access port 6" well cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
<u>220</u>	<u>60</u>	<u>120</u>

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
<u>10"</u>	<u>0</u>	<u>2</u>	<u>Top soil</u>		☒
<u>1"</u>	<u>2</u>	<u>38</u>	<u>Brown sandy clay</u>		☒
<u>6"</u>	<u>38</u>	<u>60</u>	<u>Brown sandy clay</u>		☒
<u>1"</u>	<u>60</u>	<u>145</u>	<u>Brown sandy clay</u>		☒
	<u>145</u>	<u>158</u>	<u>Brown sand</u>	☒	
	<u>158</u>	<u>160</u>	<u>Brown sandy clay</u>		☒
	<u>160</u>	<u>220</u>	<u>Brown sandy clay</u>		☒
	<u>220</u>	<u>236</u>	<u>Whight sand (Big)</u>	☒	
	<u>236</u>	<u>247</u>	<u>Brown clay</u>		☒
	<u>247</u>	<u>251</u>	<u>Whight sand (Big)</u>	☒	
	<u>251</u>	<u>253</u>	<u>Brown clay</u>		☒
	<u>253</u>	<u>254</u>	<u>Brown sand</u>		☒
	<u>254</u>	<u>257</u>	<u>Brown clay</u>		☒
	<u>257</u>	<u>261</u>	<u>Brown sand</u>		☒
	<u>261</u>	<u>288</u>	<u>Brown sand (heaving)</u>		☒
	<u>288</u>	<u>291</u>	<u>Brown clay</u>		☒
	<u>291</u>	<u>292</u>	<u>Whight sand (Big)</u>	☒	

RECEIVED

AUG 13 2010

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 292

Date Started: 4/28/2010 Date Completed: 5/6/2010

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 Kaiserling Drilling Co. No. 417

*Principal Driller Mike Knut Date 6/15/2010

*Driller _____ Date _____

*Operator II Paul J. Jind Date 6/15/2010

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

\$200 DP FEE PAID ✓

STATE OF IDAHO
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06N04W12

Basin/Seq	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-2322	UNITED S ELIJAH SI	IRRIGATION											X	X	X					
63-2322	UNITED S WILSON S	IRRIGATION											X	X	X					
63-2878	BLACK C. ELIJAH D	IRRIGATION											X	X	X					
63-2878	BLACK C. WILSON I	IRRIGATION											X	X	X					
63-30372	ANDERS C	GROUND DOMESTIC											X							
63-32280	BOCK, GE	GROUND IRRIGATION											4.5	2						6.5
63-33367	BOCK, G	GROUND IRRIGATION												0.3						0.3
63-33418	HAYDEN, GROUND	IRRIGATION											4.5							4.5
63-9103F	CHOUTCH	GROUND IRRIGATION												19						19
65-13807	UNITED S GROUND	STOCKWATER				X														
65-2433	UNITED S PAYETTE	IRRIGATION											X	X	X					
65-2900	BLACK C. TUNNEL	IRRIGATION											X	X	X					

Surface water, none available

Overlapping groundwater irrigation

06N04W12

Basin/Sequ Owner Source

63-30372 ANDERS(GROUND WATER
63-32280 BOCK, G(GROUND WATER
63-33367 BOCK, G(GROUND WATER
63-33418 HAYDEN(GROUND WATER

NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
									X						
										X					
										X					
										X					

POD overlap, combined 0.07 cfs



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

March 30, 2018

GEORGE AND TERESA BOCK
2664 SAND HOLLOW RD
CALDWELL ID 83607

RE: Water right permit no. 63-33367

Dear Permit Holder:

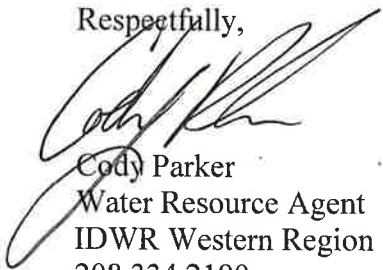
We are planning to conduct water right examinations in the vicinity of the permit referenced above **this season**. An examination is needed to verify the water use in order to issue a water right license.

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