

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. 63-335931. Owner John LindleyPhone No. 208-484-8791Current address 29453 Gotsch Rd., Parma, ID 836602. Examiner's name Cody ParkerEXAM DATE April 13, 20183. Accompanied by John Lindley

Email _____

Address _____

Relationship to permit holder Owner

Phone No. _____

4. Source Ground Water

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use None2. Other water rights with the same source and point of diversion None**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

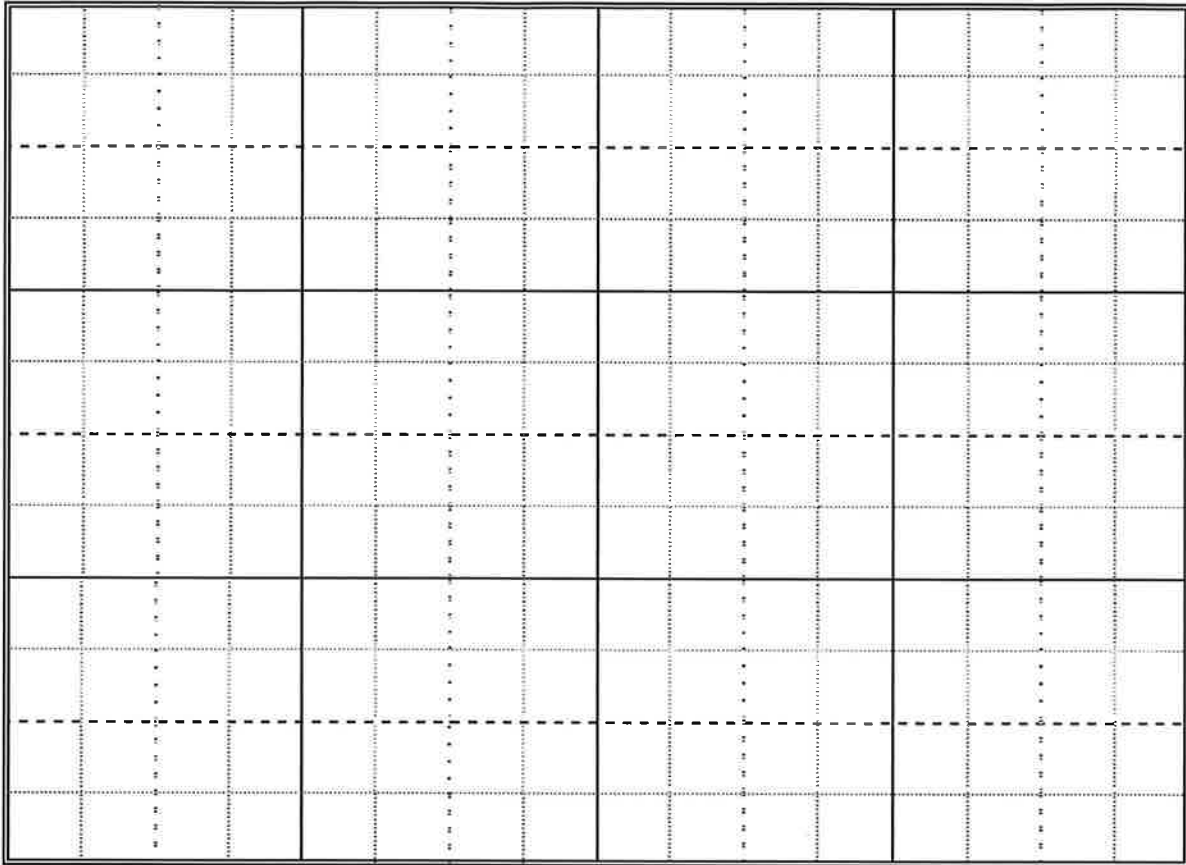
Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			SE	NE	1	05N	05W	Canyon	GPS, digital PLS, well log

2. Place(s) of Use:

Method of determination Aerial imagery, 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	
05N	05W	1			16	36									1				53

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. D0070027		60			8" discharge, 80 psi

*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
Theoretical						

2. **Measurements:** _____

Well elevation => 2482 ft; Top of field => 1537 ft; Bottom of field => 2443 ft; 90 psi discharge pressure

~1000 ft 8" pvc to first lateral and set of risers

~750 ft 8" pvc from first to second lateral

E. NARRATIVE/REMARKS/COMMENTS

This permit authorizes the diversion of 1.13 cfs groundwater to irrigate up to 57 acres. Proof was submitted on November 18, 2016. I completed the field exam on April 13, 2018 accompanied by the permit holder. The property is accessed at the northern end of Gotsch Rd. in Canyon County.

The point of diversion is a 12" well with metal tag no. D0070027. The total depth of the well is 440 ft and static water level is 156 ft. Water is diverted from the well using a 60-hp turbine pump through an 8" mainline. Discharge pressure at the well head is 90 psi. The estimated pumping capacity of the system is 0.95 cfs, which does not take into account elevation change or pressure losses due to friction.

53 acres of pasture grass and alfalfa are irrigated using water reels (Cadman 540' and Irriland 820' reels). Water from the lateral lines passes through risers and 540 - 820 ft of 2" PE line to a gun at the end of the reel with a 20 mm nozzle. According to the owner, he can run either 3 reels at the top of the field or 4 at the lower elevations. A spec sheet (picture included in file) shows that each reel should discharge around 136.1 gpm at the 60 psi that the owner has observed at the reel. For 4 reels running at once the maximum discharge should be 1.21 cfs. However, I did not observe the system as it was running, so I can not confirm that the pressure at the nozzle was 60 psi. The well capacity calculation is likely a better estimate of the actual discharge which is 0.95 cfs. The well capacity is within 10% of the BU standard rate (@ 0.02 cfs/acre) so I have recommended 1.06 cfs for the diversion rate. The recommended irrigation volume was determined from the headgate requirement (4.5 afa/acre). There are no overlapping water rights, and there is no available surface water at the POU.

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:

BU Standard: $0.02 \text{ cfs} \times 53 \text{ acres} = 1.06 \text{ cfs}$ Nozzle: 65 psi at 20 mm nozzle (according to owner) = $144.4 \text{ gpm/nozzle} \times 4 \text{ nozzles} = 1.29 \text{ cfs}$ Well Capacity: $= (8.8 \times 0.7 \times 60) / (180 + 2.31(90)) = 0.95 \text{ cfs}$ Spec Sheet: 136.1 per reel @ 60 psi x 4 reels = $544.4 \text{ gpm} = 1.21 \text{ cfs}$ **G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 53 \text{ acres} \times 4.5 \text{ afa/acre} = 238.5 \text{ afa}$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.95 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 489.9 \text{ afa}$$

$$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = 238.5 \text{ afa}$$

2. Volume Calculations for Other Uses:

No other uses

H. RECOMMENDATIONS

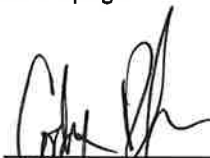
1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	03/01	11/15	1.06 cfs	239 afa
Totals:			1.06 cfs	239 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

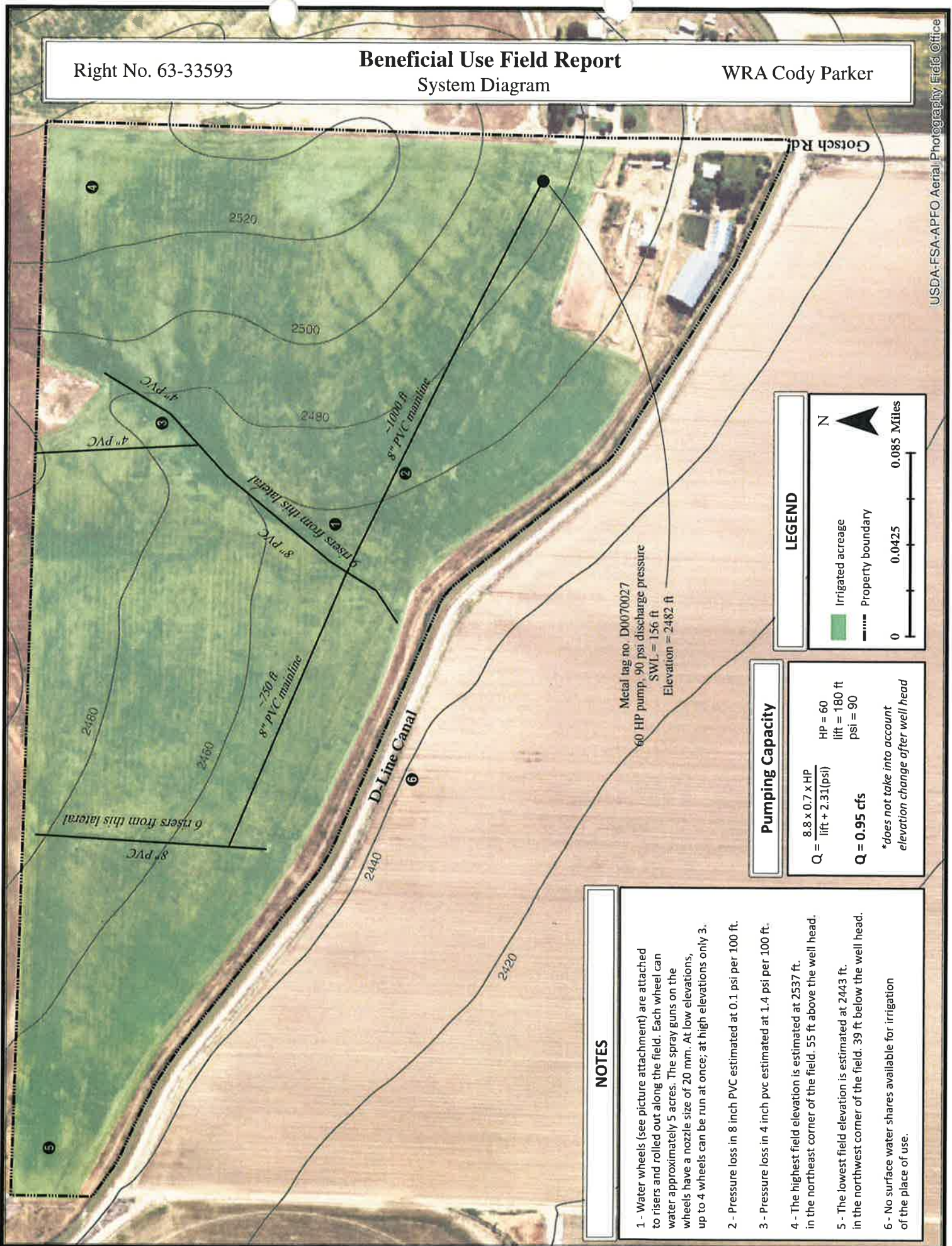
Right No. 63-33593

Beneficial Use Field Report

System Diagram

WRA Cody Parker

USDA-FSA-APFO Aerial Photography Field Office



State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-33593

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 0.075 0.15 0.3 Miles



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



Figure 1 The Irriland brand water reel. 820 ft of 2-inch PE line to gun w/ 20 mm nozzle.



Figure 2 Cadman brand water reel. 540 ft of 2-inch PE line to gun w/ 20 mm nozzle.

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



Figure 3 The performance sheet showing 136 gpm from the 20 mm nozzle at 60 psi.



Figure 4 The Nelson 20 mm nozzle. Same on all reels.

* Pictures of well head and metal tag were accidentally deleted. Metal tag no. was confirmed at exam.

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05N05W1

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 SELLAH IRRIGATION					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2322	UNITED S WILSON IRRIGATION					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2878	BLACK C ELLIAH D IRRIGATION					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2878	BLACK C WILSON IRRIGATION					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33041	RAGAINS GROUND IRRIGATION				21															21
63-33145	HOFSTET GROUND IRRIGATION							10	23			40	38							111
63-33146	GOULD, J GROUND IRRIGATION				23			30												53
63-33593	LINDLEY GROUND IRRIGATION					16	36									1				53
65-2433	UNITED S PAYETTE IRRIGATION					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
65-2900	BLACK C TUNNEL IRRIGATION					X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Surface water irrigation, none available north of D-Line Canal

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05N05W1

Basin/Sequ Owner Source
 63-20751 RAGAINS GROUND WATER
 63-20752 FRETWEL GROUND WATER
 63-27709 BALDWIN GROUND WATER
 63-27749 CRAWFORD GROUND WATER
 63-33041 RAGAINS GROUND WATER
 63-33145 HOFSTET GROUND WATER
 63-33146 GOULD, J GROUND WATER
63-33593 LINDLEY GROUND WATER
 63-9110 RAGAINS GROUND WATER

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

63

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

RECEIVED

SEP 08 2015

WATER RESOURCES
WESTERN REGION

1. WELL TAG NO. D 0070027

Drilling Permit No. 969583-875640

Water right or injection well # 63-33593

2. OWNER: John Lindley

Name

Address 29453 Gotsch Rd

City Parma State ID Zip 83660

3. WELL LOCATION:

Twp. 05 North ☒ or South ☐ Rge. 05 East ☐ or West ☒

Sec. 1 1/4 SE 1/4 NE 1/4

Gov't Lot County Canyon

Lat. 43 47.996 (Deg and Decimal minutes)

Long -116 52.353 (Deg and Decimal minutes)

Address of Well Site End of Gotsch Rd

City Parma

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 Reverse

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite	0	315	47,500	Dry pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
12	+2	330	.375	Steel	☒	☐	☐	☒
12	350	355	.375	Steel	☒	☐	☐	☒
12	365	375	.375	Steel	☒	☐	☐	☒
12	395	405	.375	Steel	☒	☐	☐	☒

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N MethodManufactured screen ☒ Y ☐ N Type Wire Wrap

Method of installation Lower in

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
330	350	.030		12	Mild Steel	
355	365	.030		12	Mild Steel	
375	395	.030		12	Mild Steel	

Length of Headpipe Length of Tailpipe 5'

Packer ☐ Y ☒ N Type

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
#8-16 Sand	315	440	24,000	Dry pour

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) 156 Static water level (ft) 156

Water temp. (°F) 70° Bottom hole temp. (°F)

Describe access port 2" pipe on side

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
54	1250	797

Test method:

Pump	Basin	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
21	0	35	Fine-medium brown sand		X
21	35	39	Medium-coarse brown sand		X
21	39	87	Fine-med brn sandw/thin clay lenses		X
21	87	133	Fine-coarse brown sand		X
21	133	136	Brown clay		X
21	136	138	Fine-medium brown sand	X	
21	138	140	Brown sandstone		X
21	140	163	Fine-med brn sand, brn clay seam	X	X
21	163	165	Fine-medium brown sand	X	
21	165	169	Brown sandstone		X
21	169	177	Fine-medium brown sand	X	
21	177	192	Brown clay		X
21	192	218	Fine-coarse brown sand	X	
21	218	222	Brown clay		X
21	222	285	Fine-medium brown sand	X	
21	285	291	Brown clay		X
21	291	309	Fine-med brn sand, brn clay layer	X	X
21	309	314	Blue clay		X
21	314	321	Med-coarse blue sand	X	
21	321	326	Blue clay		X
21	326	330	Brown clay		X
21	330	384	Fine-coarse bl sand, pea gravel	X	
21	384	390	Fine bl sand w/bl clay seams	X	X
21	390	393	Blue clay w/fine sand seams	X	X
21	393	395	Blue clay		X
21	395	397	Fine-med blue sand	X	
21	397	402	Blue clay		X
21	402	435	Fine-coarse blue sand	X	
21	435	440	Blue clay		X
Screens Continued:					
	405	435	030 Slot 12" Mild Steel		

Completed Depth (Measurable) 440

Date Started Jun 15, 2015

Date Completed Aug 6, 2015

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 Riverside Inc

Co. No 333

*Principal Driller

Date 9/3/15

*Driller

Date 9/3/15

*Operator II

Date

Operator I

Date

* Signature of Principal Driller and rig operator are required.



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

JOHN LINDLEY
29453 GOTSCH RD
PARMA ID 83660

RE: Water right permit no. 63-33593

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