

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15736
Exam Date: 06/11/2018

1. Current Owner:
GREG DIETRICH 13313 REMUDA CYN LEWISTON ID 83501 AND/OR
SHARON DIETRICH 13313 REMUDA CYN LEWISTON ID 83501

2. Accompanied by: Sharon Dietrich
Relationship to permit Holder: Applicant

3. **SOURCE:**
GROUND WATER

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
85-15734	Groundwater	Domestic and Stockwater	Decree

Comments: _____

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
85-15734	Groundwater	Domestic and Stockwater	Decree

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SW¼ SE¼ SW¼, Sec. 29, Twp 35N, Rge 05W, B.M. NEZ PERCE County

Method of Determination: Maps and GPS. POD located at -116° 59.699, 46° 20.436 (D0033222) given IDWR tag A0015420

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
35N	05W	29												4.5					4.5

Total Acres: 4.5

Method of Determination: Google Earth and Arcmap.

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.
☒ Indicate weir size/pipe as applicable.

☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

☒ Aerial Photo Attached (required for irrigation of 10+ acres).

☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0033222		5			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: N/A

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

Unable to perform flow measurement

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.5 \text{ AC} \times 4.0 \text{ AF} = 18.0 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 294 \times 1.9835 = 35.0 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 18.0 \text{ AF}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Sharon Dietrich, the applicant, showed a well being used for domestic, stockwater, and irrigation uses. The well was drilled in 2003 and was equipped with a 5hp pump that fed directly into an unknown cistern size. There was no location to perform a measurement because water flowed directly into storage tank and was then diverted using pressure tanks. A theoretical pumping equation estimates the flow rate at 27.4 gpm or 0.06 cfs. The well water use was also covered under Water Right 85-15734 for domestic and stockwater.

The permit had been issued for domestic, stockwater, and irrigation. The applicant's had also filed a domestic and stockwater claim 85-15734 which had been decreed and is now a water right. The applicant was still using water for domestic for 2 homes and for stockwater for 30 horses and cattle. There was no need to have redundant uses as 85-15734 which had an older priority date than this permit. Domestic and stockwater use will be removed from the license. The applicant was irrigating more than ½ acre which could be licensed. The applicant was using both irrigation sprinkler systems and drip irrigation systems. The actual acreage was traced out to be 4.5 acres of irrigation. The irrigation included lawn, flower beds, trees, garden, and pasture. The license will be issued with a diversion rate of 0.06 cfs with an annual volume of 18.0 acre-feet.

All conditions will be removed from license except 004. It is unclear why condition R62 was placed on permit as headgate requirement for that area is 4 afa and not 3 afa. Condition R68 was added to replace R62. Because there was already Water Right License 85-15734, there was no need to license domestic and stockwater again, conditions 132 and X02 are no longer needed. Conditions X35 and F06 were added to describe the relationship with 85-15734. Condition X35 was added to limit the diversion rate and acres irrigated between the two licenses. The limitation will be no more than 0.06 cfs between the two rights and the irrigation is limited to 4.5 acres. There will not be a volume limitation because 85-15734 was decreed and has a 13,000 gallon per day condition with no annual volume. Condition F06 was added to show that the two rights are diverted from the same well. There are no other overlap concerns.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	02/15 to 11/30	0.06 CFS	18.0 AF

Totals:

0.06 CFS

18.0 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 11/25/19

Reviewer Douglas Jones Date 12/30/19

State of Idaho
Department of Water Resources
Attachment to Field Exam
85-15736

IRRIGATION / SYSTEM DIAGRAM

05W

35N



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

0 0.035 0.07 0.14 Miles



IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT
RECEIVED

1. WELL TAG NO. D 0033222
DRILLING PERMIT NO. 807832 NOV 17 2003
Water Right or Injection Well No. _____

2. OWNER: IDWP/North
Name GREGORY D. DIETRICH
Address 320 WARNER DR.
City LEWISTON State ID Zip 83501

3. LOCATION OF WELL by legal description:

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

Twp. 35 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 29 SW 1/4 SW 1/4 SE 1/4 NE 1/4
Gov't Lot _____ County NEZ PERCE
Lat: _____ Long: _____
Address of Well Site MAP City LEWISTON
(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
<u>SEPTONITE</u>	<u>0</u>	<u>19</u>	<u>200</u>	<u>OVER BACK</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 286
Was drive shoe seal tested? ☒ Y ☐ N How? AIR TEST

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8</u>	<u>1</u>	<u>19</u>	<u>25</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>6</u>	<u>6</u>	<u>286</u>	<u>250</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>4.5</u>	<u>16</u>	<u>500</u>	<u>250</u>	<u>PUL</u>	☐	☒	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☒ Y ☐ N Type PUL

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method SAW

Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>460</u>	<u>500</u>	<u>1/4"</u>	<u>72</u>	<u>4.5</u>	<u>PUL</u>	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

360 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

VEN CAP
35N 5W 29

Office Use Only
Well ID No. _____
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
<u>40</u>	<u>—</u>	<u>500</u>	<u>1 hr</u>

Water Temp. 54.0 Bottom hole temp. _____

Water Quality test or comments: GOOD

Depth first Water Encounter 450

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>7</u>	<u>CLAY</u>	☒	☐
<u>10</u>	<u>7</u>	<u>95</u>	<u>GRAVEL FRACT</u>	☒	☐
<u>8</u>	<u>95</u>	<u>105</u>	<u>SHALE ROCK</u>	☐	☒
<u>8</u>	<u>105</u>	<u>130</u>	<u>CLAY SANDY BROWN</u>	☐	☒
<u>8</u>	<u>130</u>	<u>195</u>	<u>CLAY SILT</u>	☐	☒
<u>8</u>	<u>195</u>	<u>225</u>	<u>CLAY WHITE</u>	☐	☒
<u>8</u>	<u>225</u>	<u>283</u>	<u>CLAY YELLOW</u>	☐	☒
<u>8</u>	<u>283</u>	<u>390</u>	<u>GRAVEL SAND</u>	☐	☒
<u>6</u>	<u>390</u>	<u>415</u>	<u>LOW RED</u>	☐	☒
<u>6</u>	<u>415</u>	<u>490</u>	<u>GRAVEL FRACT</u>	☒	☐
<u>6</u>	<u>490</u>	<u>495</u>	<u>BLUE SHALE</u>	☐	☒
<u>6</u>	<u>495</u>	<u>500</u>	<u>GRAVEL SAND</u>	☐	☒

Completed Depth 500 (Measurable)

Date: Started 10-13-03 Completed 10-18-03

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 NAIL + SONS Firm No. 616

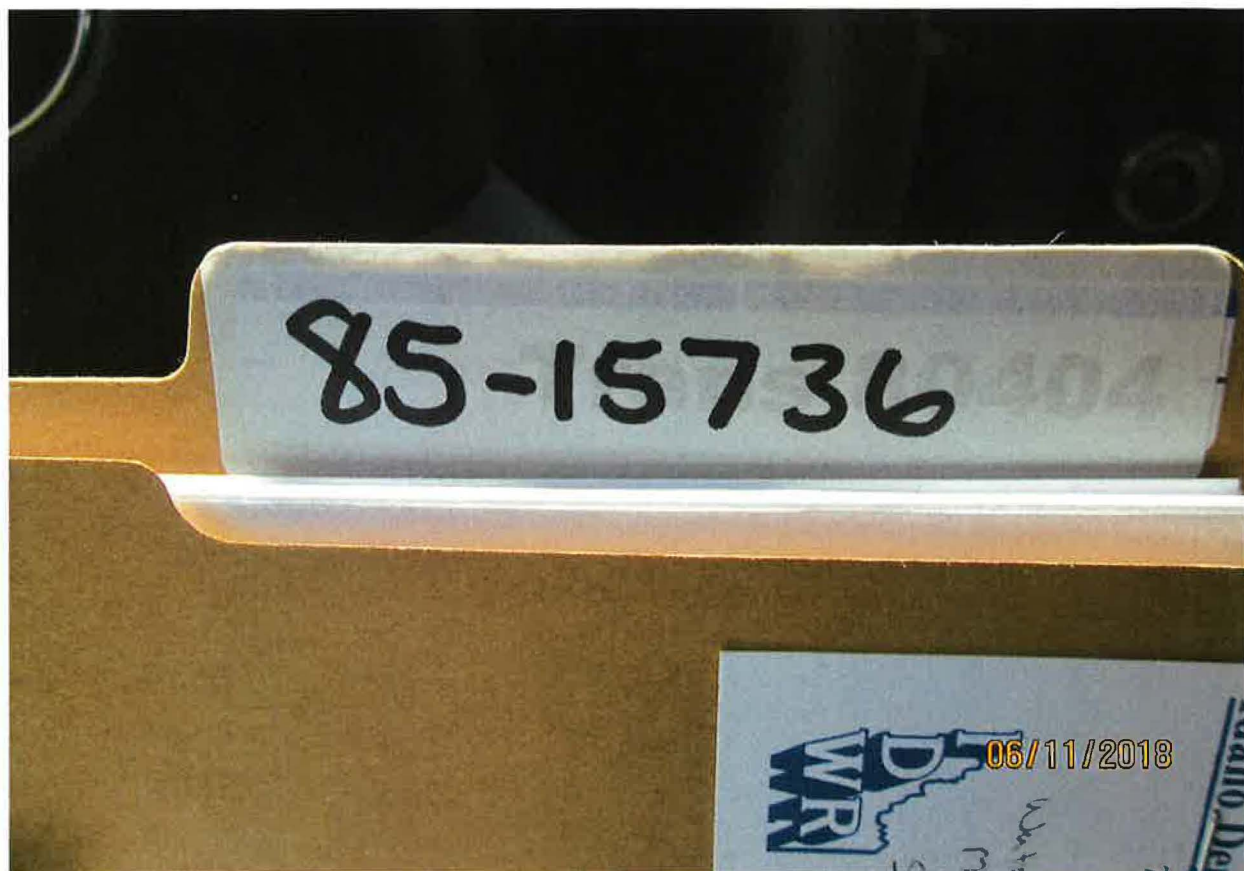
Principal Driller Nail Nail Date 10-25-03

and Driller or Operator II _____ Date _____

Operator I _____ Date _____

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

FORWARD WHITE COPY TO WATER RESOURCES



Well D0033222.



5hp pump in well.



Storage tank of unknown size.



Irrigation POU.



Irrigation POU.





Irrigation POU.





Irrigation POU.

