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JUL 19 2019

IDWR / NORTH

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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JUL 29 2019

DEPARTMENT OF
WATER RESOURCES

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. 95-110881. Owner Honeysuckle Cooperative Water Association Phone No. 208-683-2974Current address PO Box 581 Athol, ID 838012. Examiner's name Thomas F. Mullen, PG EXAM DATE July 9, 20193. Accompanied by Toni Brown Email tonib@1791.comAddress 7032 E Honeysuckle RoadRelationship to permit holder Secretary of the Water Association Phone No. same as above4. Source Groundwater tributary to N/A**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**C. DIVERSION AND DELIVERY SYSTEM**1. **Point(s) of Diversion:** POD location at 47 58.113667' N, 116 41.371333' W (Figure 1)

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
Well		NE	NE	SW	3	53N	3W	Kootenai	Exam, GPS, 2014 Google Earth Image

2. **Place(s) of Use:** Method of determination Exam, 2014 Google Earth Image (Figure 2)

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
53N	3W	3									D				D				
											2.2				1.3				3.5

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
Well (POD)	Franklin-Electric	5		Franklin	25FA5S4-PE (model)

*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
N/A						

2. **Measurements:** N/A - well pumps directly to three pressure tanks.

E. NARRATIVE/REMARKS/COMMENTS

The Honeysuckle Cooperative Water Association (HCWA) serves seven homes (Lots 1 through 7). Table 1 (attached) references lot numbers to corresponding Kootenai County parcel numbers and addresses. The point of diversion (POD) is a groundwater well located on Lot 1 (well driller's report is attached; no well tag on well). The well pumps directly to three pressure tanks in a pump house located at the south end of Lot 1 along Honeysuckle Road. From the pump house, a service line runs along the south side of Honeysuckle Road and splits off at each of the lots (see Figure 2).

The well pump is a Franklin-Electric 5 horsepower (HP) submersible pump. According to United Crown Pump & Drilling, who last serviced the pump, the pump intake is set at approximately 380 feet deep. A pressure gage in the pump house indicated 41 pounds per square inch (psi). Because the well pumps directly to three pressure tanks, the diversion rate was estimated using the theoretical pumping equation which calculated a diversion rate at 33.3 gpm or 0.07 cubic feet per second (cfs).

Lots are approximately 5 acres in size and include one home per lot and irrigatable areas around each home. The size of areas that were observed to be irrigated on each lot are presented in Table 1 and Figure 2. At the time of the field exam, the home on Lot 5 was vacant with no observable areas that were being irrigated. Given the current conditions observed, it was assumed that 0.1 ac could be irrigated on Lot 5. Total irrigated acreage is estimated at 3.5 acres.

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:

Well pumps directly into pressure tanks. Theoretical pumping equation estimates flow at
 $(5 \text{ HP})(8.8)(0.8) / 380 \text{ ft} + (41 \text{ psi} \times 2.3087 \text{ ft/psi}) = 0.07 \text{ cfs}$
 Pump is set at 380 feet; pressure is 41 psi.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.5 \text{ ac} \times 3 \text{ afa/ac} = 10.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.07 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 29.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 10.5 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$7 \text{ Homes} \times 0.6 \text{ AF} = 4.2 \text{ AF}$$

H. RECOMMENDATIONS**1. Recommended Amounts**

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Domestic	01/01	12/31	0.07	4.2
Irrigation	3/15	11/15	0.07	10.5
Totals:			0.07	14.7

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

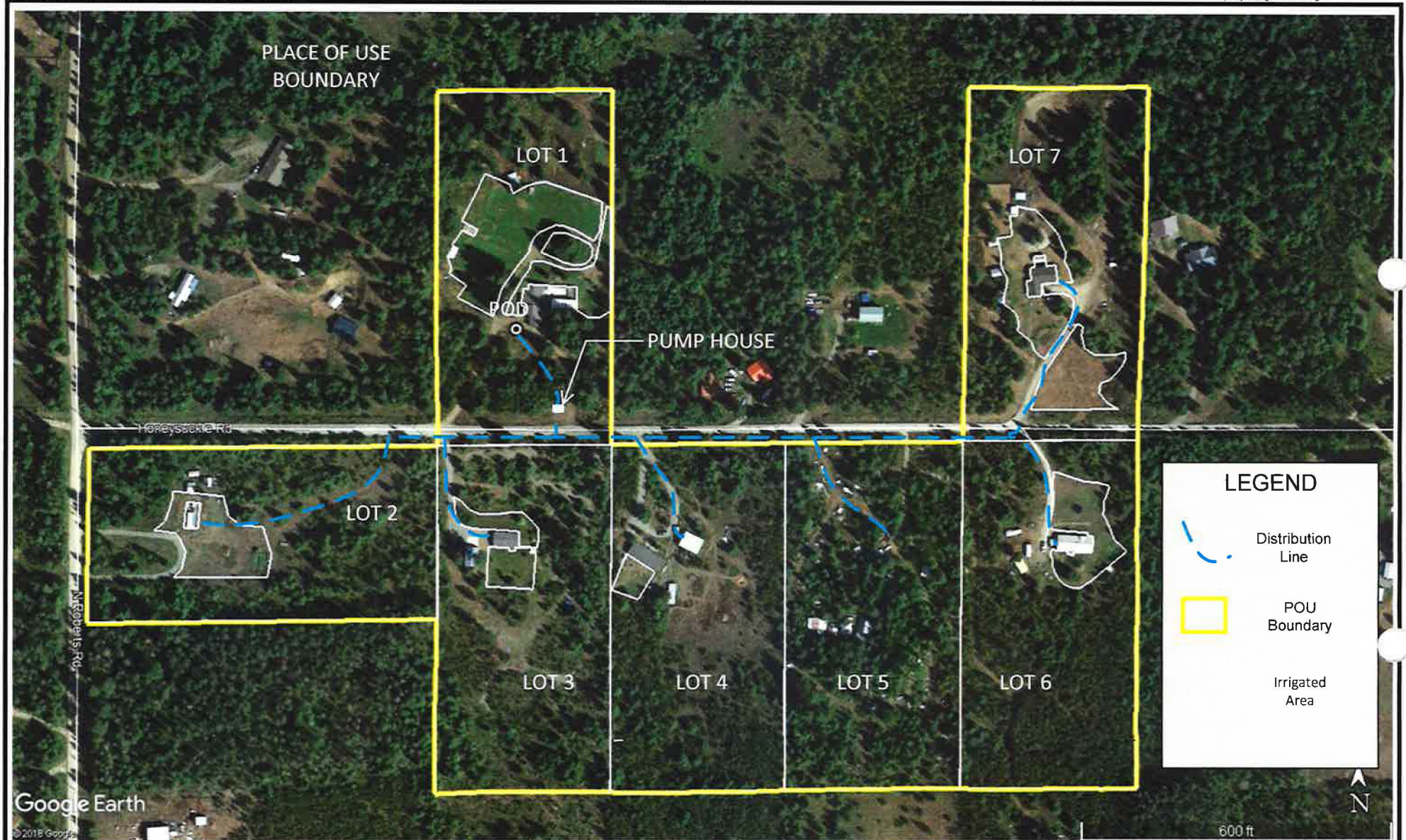
7/19/2019



SEAL

Reviewer

Date



**Northwest Groundwater
Consultants, LLC**

01142-01

JULY 2019

POD AND POU LOCATIONS

PERMIT NO. 95-11088
BENEFICIAL USE FIELD REPORT
HONEYSUCKLE COOPERATIVE WATER ASSOCIATION
KOOTENAI COUNTY, IDAHO

FIGURE

2

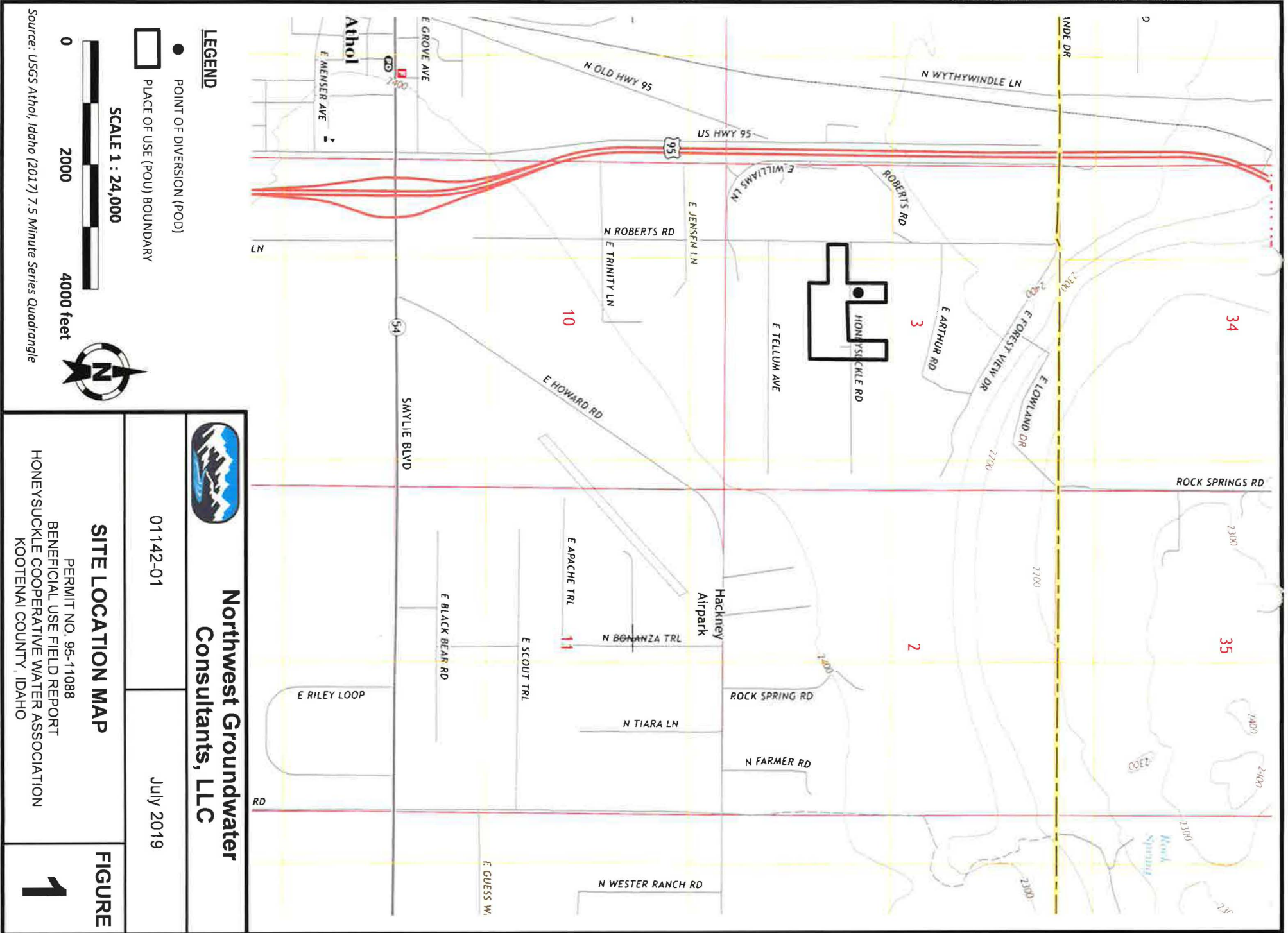


TABLE 1
Permit No. 95-11088
Honeysuckle Cooperative Water Association

Lot No.	Kootenai County Parcel No.	Address	Irrigated Area (ac)
1	53N03W-03-4900	7041 E HONEYSUCKLE RD	1.2
2	53N03W-03-5150	32538 N ROBERTS RD	0.6
3	53N03W-03-5300	7032 E HONEYSUCKLE RD	0.3
4	53N03W-03-5350	7150 E HONEYSUCKLE RD	0.1
5	53N03W-03-8150	7248 E HONEYSUCKLE RD	0.1
6	53N03W-03-8200	7376 E HONEYSUCKLE RD	0.4
7	53N03W-03-8000	7395 E HONEYSUCKLE RD	0.8
Total Irrigated Area (ac)			3.5

Notes:

ac = acre

Irrigated areas estimated from field exam and 2014 Google Earth Image

Lot 5 assumes 0.1 ac that could be irrigated.

NORTHERN REGION
IDWR

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter
or
Ball Point Pen

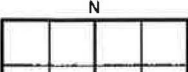
1. DRILLING PERMIT NO. 96-95-N-45 -
Other IDWR No. _____

2. OWNER:

Name Jeff Hershey
Address P.O. Box 461
City Alto State ID Zip 83601

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 53 North ☒ or South ☐
 Rge. 3 East ☐ or West ☒
 Sec. 3 NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$
 Gov't Lot _____ County Kootenai 10 acres 40 acres 160 acres

Address of Well Site E 7055
Honey Suckle City Arhol
 (Give at least name of road + Distance to Road or Landmark)

Li. _____ Blk. _____ Sub. Name Forest View
Rec. Trac

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	20	7	overbored

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 42.0'
Was drive shoe seal tested? Y ☐ N ☒ How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	1 1/2	420	.250	Steel	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method N/A

☐ Screens Screen Type _____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

NE NESW 3 53N 3W

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
30			3 hour

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	3	Top Soil		X
10	3	62	SAND AND GRAVEL		X
10	62	65	GRANITE BOLDER		X
10	65	230	SAND AND GRAVEL		X
10	230	232	GRANITE BOLDER		X
10	232	325	SAND AND GRAVEL		X
10	325	332	GRANITE BOLDER		X
10	332	345	SAND AND GRAVEL		X
10	345	366	GRAVELY CLAY		X
10	366	392	SAND AND GRAVEL	X	
10	392	396	GRANITE BOLDER		X
10	396	420	SAND AND GRAVEL	X	

OFFICE USE ONLY

Inspected by EDK

Top 53N Pop 3W Sec 03

NE 1/4 NE 1/4 SW 1/4

MICROFILMED

MAR 09 1993

009661

Completed Depth 420' (Measurable)
Date: Started 3-11-95 Completed 3-14-95

13. DRILLER'S CERTIFICATION

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

Firm Name Hester Well Drilling Firm No. 528
Firm Official [Signature] Date 3-14-95
and
Supervisor or Operator C. Mark Hensley Date 3-14-95
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association

Beneficial Use Field Report

Lot 1

Well - POD



Lot 1

Outside hydrant &
irrigated area



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Lot 1

Home (well in
foreground)



Lot 1

Irrigated area



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Pump House



Pressure Tanks



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

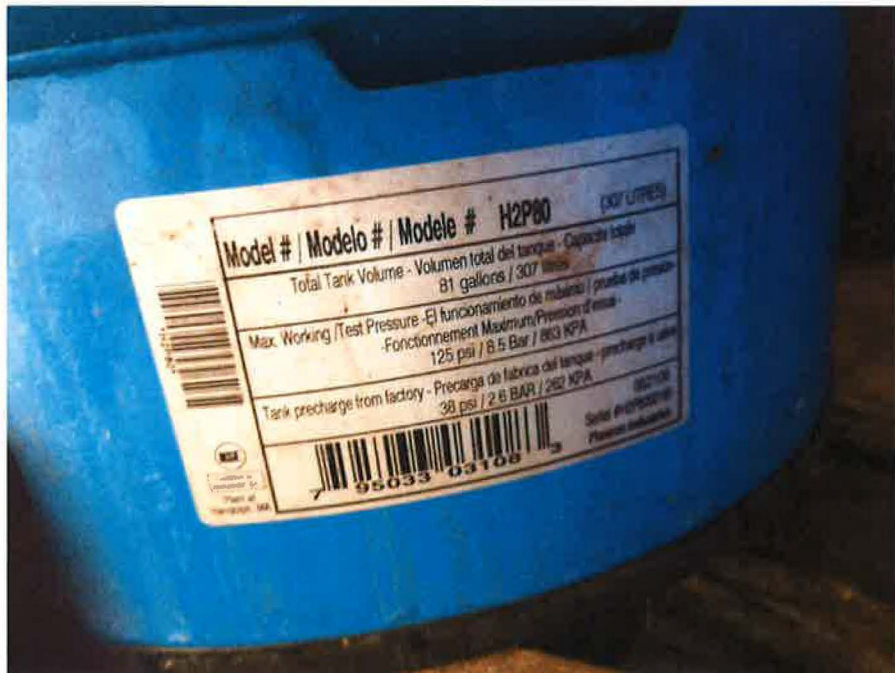
Pressure Tank

Flexcon Well Rite
WR360S – 119 gallons



Pressure Tank

Flexcon H2P80 – 81
gallons



PHOTOGRAPHS

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Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Pressure Tank

Water Worker HT-86B
86 gallons



Pressure Gage



PHOTOGRAPHS

Permit No.95-11088

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Beneficial Use Field Report

Lot 2

Home



Lot 2

Outside hydrant



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Lot 2

Irrigated area



Lot 2

Irrigated area



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Lot 2

Irrigated area



Lot 2

Irrigated area (front of home)



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association

Beneficial Use Field Report

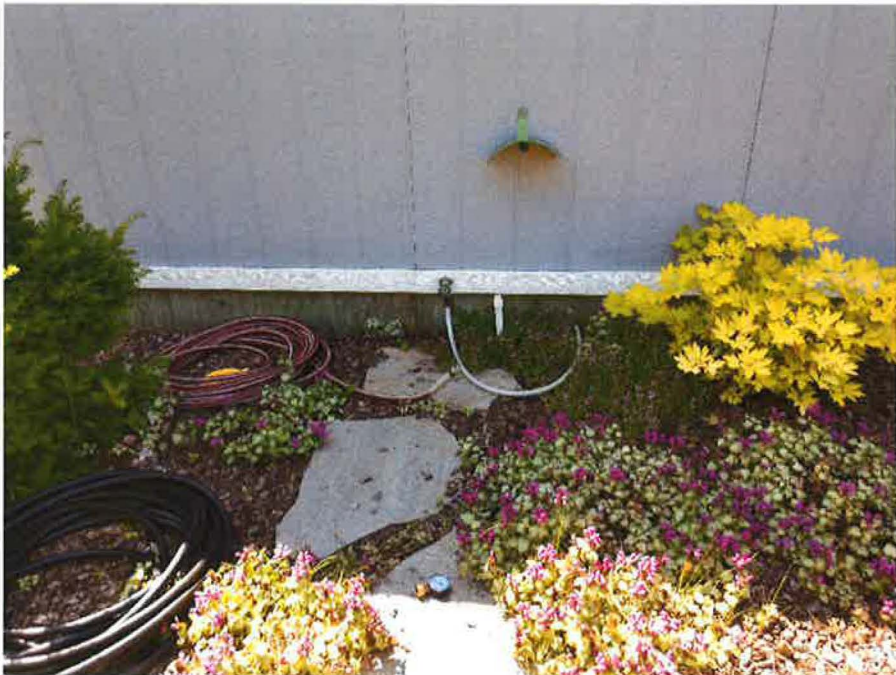
Lot 3

Home & irrigated area



Lot 3

Outside hose bib



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Lot 4

Home



Lot 4

Outside hydrant &
Irrigated area



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Lot 4

Irrigated area



Lot 4

Irrigated area



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Lot 5

Home (vacant)



Lot 5

Outside hydrant (inside shed)



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Lot 6

Home & irrigated area



Lot 6

Outside hydrant &
Irrigated area



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Lot 6

Irrigated area



Lot 6

Irrigated area (hydrant
inoperative)



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association

Beneficial Use Field Report

Lot 3

Irrigated area (back of home)



Lot 3

Irrigated area



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association
Beneficial Use Field Report

Lot 7.

Home & irrigated area



Lot 7

Outside hydrant



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association

Beneficial Use Field Report

Lot 7

Irrigated area



Lot 7

Home & irrigated area



PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association

Beneficial Use Field Report

Lot 7

Irrigated area



Lot 7

Irrigated area



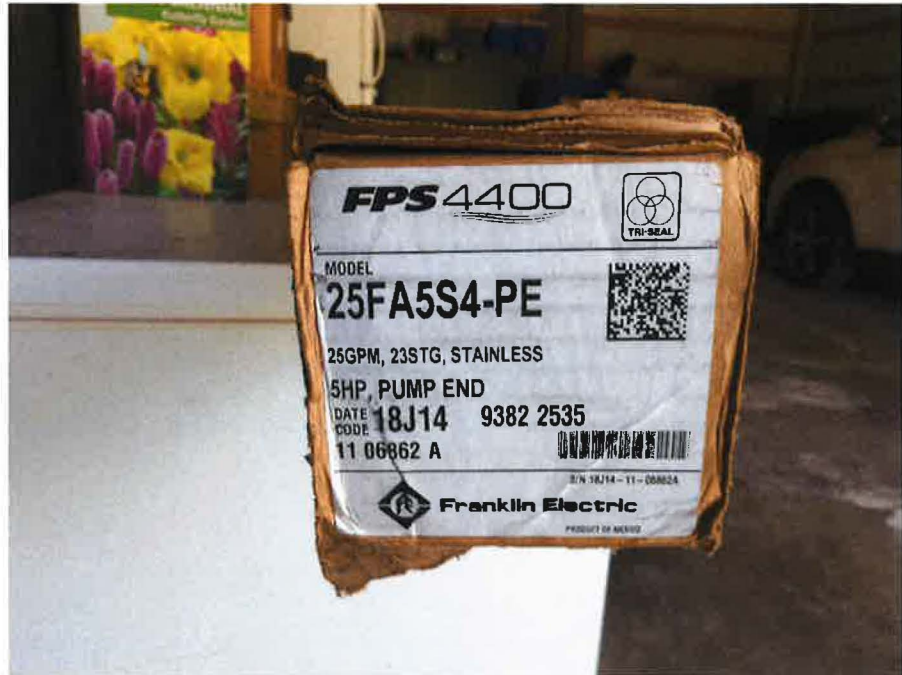
PHOTOGRAPHS

Permit No.95-11088

Honeysuckle Cooperative Water Association

Beneficial Use Field Report

Pump Box





Northwest Groundwater
Consultants, LLC

Northwest Groundwater Consultants, LLC
2660 E Thomas Hill Drive
Coeur d'Alene, ID 83815
208-755-1094

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JUL 19 2019

IDWR / NORTH

July 19, 2019

Project No. 01142-01

Mr. Doug Jones, PE
Idaho Department of Water Resources
Northern Regional Office
7600 Mineral Drive, Suite 100
Coeur d'Alene, Idaho 83815

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JUL 29 2019

DEPARTMENT OF
WATER RESOURCES

**SUBJECT: HONEYSUCKLE COOPERATIVE WATER ASSOCIATION
PERMIT No. 95-11088
BENEFICIAL USE FIELD REPORT**

Dear Mr. Jones,

On behalf of the Honeysuckle Cooperative Water Association (HCWA), we respectfully submit the enclosed Beneficial Use Field Report for Permit No. 95-11088.

If you have any questions, or wish to discuss any items further, please do not hesitate to contact me at (208) 755-1094.

Sincerely,

NORTHWEST GROUNDWATER CONSULTANTS, LLC

Thomas F. Mullen, PG
Principal Hydrogeologist

cc: Toni Brown, HCWA