

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17093
Exam Date: 05/10/2022

1. Current Owner:
MICHAEL LASNESKI 12257 S BELLGROVE RD COEUR D ALENE ID 83814-6166
KIM LASNESKI 12257 S BELLGROVE RD COEUR D ALENE ID 83814-6166
2. Accompanied by: Michael Lasneski
Phone No: 208-818-9056
Address: Same as above
Relationship to permit Holder: permit Holder.

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
95-9045	Coeur D'Alene Lake	Municipal	License
95-9055	Groundwater	Municipal	License

Comments: Black Rock Utilities Inc. owns both licensed Right(s) 95-9045 & 95-9055 which serve municipal water to a golf course & community housing development located directly southeast of the applicant's parcel. Neither municipal system serves water to the applicant and are not a concern for overlap toward licensing Permit 95-17093.

2. Other water rights with the same point-of-diversion: NO Overlap

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER L3 (NE $\frac{1}{4}$ NW $\frac{1}{4}$), Sec. 5, Twp 48N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS. POD is located at -116°53.137, 47°32.457; well D-tag No. D0069565.

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	
48N	04W	5					0.1 L3												0.1
49N	04W	32												1.0 L5					1.0

Total Acres: 1.1

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
49N	04W	32												X L5					

Method of Determination: Beneficial use field examination, ArcMap aerial imagery, & Kootenai County Tax Parcel map software.

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 Model No.	Pump Make	Pump Serial No. or Discharge Size
D0069565	Franklin Electric	1.5	2823008110	Franklin Electric	Unknown

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
None						

2. Measurements: I was unable to perform flow measurements due to inadequate pipe requirements. Main service line from well routes directly to a pressure tank prior to distribution to water uses. A Theoretic Pumping Equation was used to calculate flow rates during licensing review with the 1.5 hp pump capacity equaling 9.8 gpm or 0.02 cfs considering department rounding standards.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Theoretic pump equation for a 1.5 hp pump installed at a depth of 380 feet with 45 psi operating pressure equals 9.8 gpm or **0.02 cfs** considering department rounding standards. The well driller's report for D0069565 estimated a 7-gpm yield from the well at time of construction which supports the 0.02 cfs based on department rounding conventions.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.1 \text{ ac} \times 3.0 \text{ afa} = 3.3 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 9.8$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{3.3 \text{ af}}$$

2. Volume Calculations for Other Uses:

- Domestic annual volume for 1 home & 1 RV home = 0.6 af (in-home water use only) x 2 = **1.2 af**.
- Maximum diversion volume = 3.3 af (irrigation) + 1.2 af (domestic) = **4.5 af**.

G. NARRATIVE/REMARKS/COMMENTS

The beneficial use field exam performed on 5/10/2022 with the applicant, Michael Lasneski, showed groundwater well D0069565 being used for domestic, and irrigation uses. At the POD, a 1.5 hp Franklin Electric pump & motor is installed in the well with well head located within a small shed. The well head is in a corner with a concrete cast floor around the casing. The well D-Tag is welded to the casing but proximity to the wall prevented a photograph from being taken. The main service line from the well routes directly to a pressure tank prior to service line splitters routing to the beneficial uses. I was unable to perform a flow measurement and a Theoretic Pump Equation was calculated deriving a flow rate of 0.02 cfs considering department rounding standards which is recommended for licensing purposes.

The applicant's permit approved diversion rates for domestic & irrigation uses are limited to the well pump's performance as determined at time of exam. Each beneficial use is recommended for 0.02 cfs respectively. During licensing review I determined the irrigation season of use is from **3/15 to 11/15**, and I've clarified the Permit end date of 10/15 to reflect the department standard season of use. Review of backfile information illustrates the applicant initiate the filing proposing water use on his property located in Twp 49N, Rge 04W, Section 32, SE¼SW¼ Gov Lot 5 but was guided by department staff to amend the application filing based on map products used in 2015. An application for permit map product developed by staff illustrates a shift/drift in the RED Township line that effectively moved the majority of the applicant's property south into Twp 48N, Rge 04W, Section 5, NE¼NW¼ Gov Lot 3.

Department aerial imagery was updated at some point between 2017-2020 which resulted in a shift in aerial imagery; it is possible this change also impacted the region where the applicant's parcel lies. I evaluated tax parcel data from Kootenai County Assessor's Office, which provides a legal description of 49N04W326700 (township and section underlined for emphasis) and being in [IN GOVT LT 5]. This legal description is consistent with how the applicant's historic use of water is occurring & until Department staff recommended changing, how the applicant was pursuing filing of the application for permit back in 2015. Based on this information I'm recommending licensing by clarifying the POU to reflect the accurate legal description which changes the permit approved POU legals, but do not recommend an amendment to permit at time of licensing to correct the erroneous data prescribed by the Department based on map software from that period.

The POD is legally described consistent with the well driller report and is so close to the Township line between 48N & 49N that it could be assessed in either legally described QQ. I've maintained the same POD legal description which conforms to the well centroid following GPS location determined at time of exam.

The domestic POU was walked with Mr. Lasneski during the exam and sketched on field maps consisting of a primary residence and an RV used as a year-round home. Photographs were taken to illustrate the domestic POU, which is being recommended for licensing with a diversion volume = 2 homes x 0.6 af (in-home use only) = **1.2 af**. ArcMap aerial imagery was used during licensing review to assign the POU license shape. As described above, the domestic POU was clarified to reflect the legal description = Twp 49N, Rge 04W, Section 32, SE¼SW¼ Gov Lot 5.

The irrigation POU receives water from multiple frost-free hydrants and a hose bib(s) from the primary residence. Water is by hose & portable sprinklers for lawn space, orchard trees, and raised garden bed growing by the applicants. I used field maps to designate the irrigation acreage during the exam and ArcMap aerial imagery during licensing review to accurately trace out the POU, which equals 1.1 acres in total. The annual volume recommended for licensing equals 1.1 ac x 3.0 afa = **3.3 af**. The maximum diversion volume recommended for licensing equals the sum of two beneficial uses or **4.5 af**. The irrigation was clarified similar to the domestic use to account for current map software legal description designations. Again,

no amendment was recommended for this correction following a meeting held with Justin Shearer – Analyst 1 State Office and myself.

I've removed Condition 26A and 046 during licensing review. Condition R62 was replaced with R66 to accurately describe small scale irrigation of less than 5 acres occurring from the applicant's system in accordance with App Processing Memo No.17. All other conditions on the permit shall be carried forward to the license. There are no overlapping concerns towards licensing 95-17093 following discussion from PG1 of the report which describes municipal water services that the applicant is not service connected to, which uses a different water source(s) than the applicant's well source.

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	03/15 to 11/15	0.02 CFS	3.3 AF
DOMESTIC	01/01 to 12/31	0.02 CFS	1.2 AF

Totals: 0.02 CFS 4.5 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

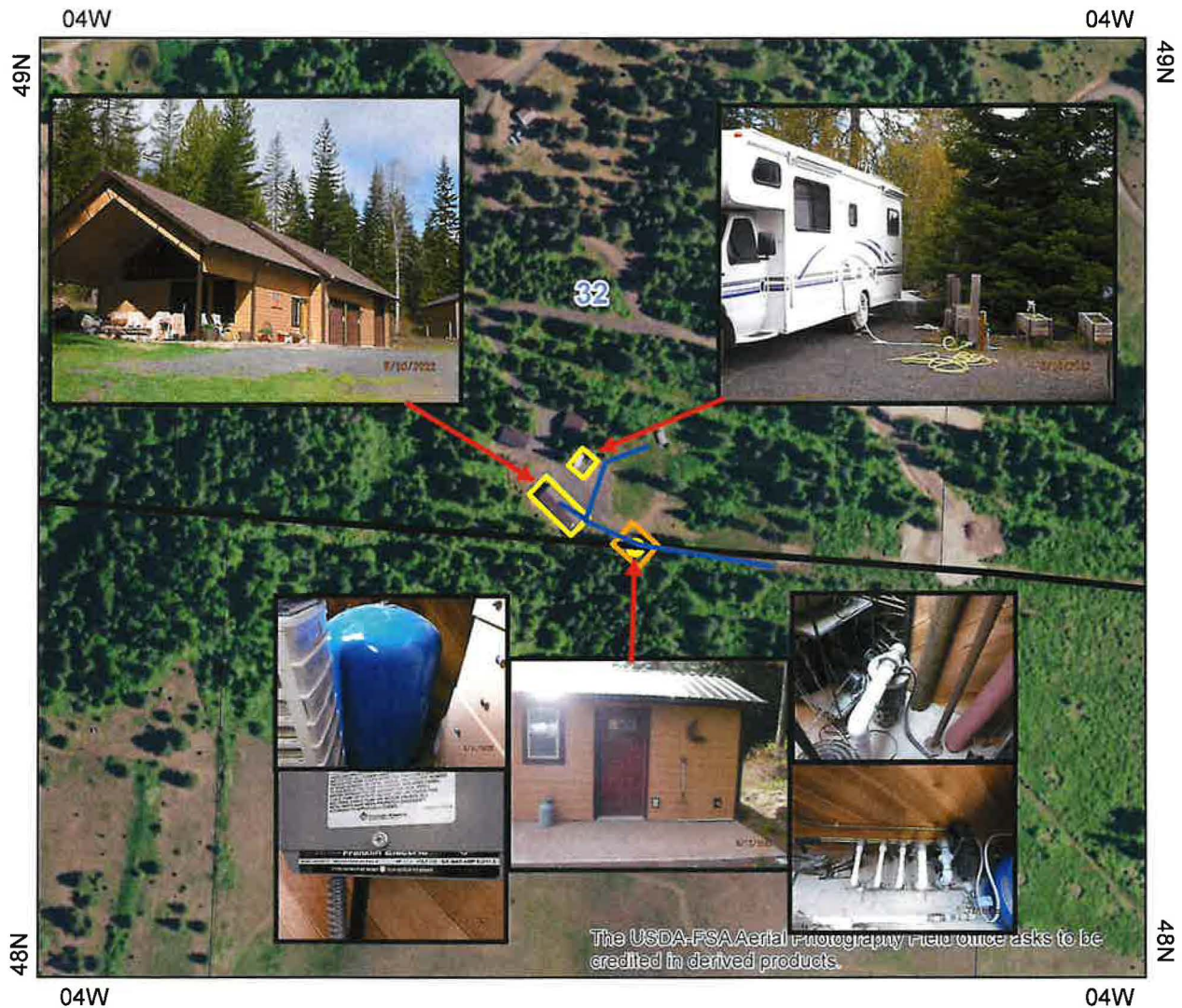
*POU clarified to reflect historic use as intended at time of application filing, but **no amendment to permit is recommended** toward licensing this Right based on discussion from State Office personnel.

I. AUTHENTICATION Luke Bates -

Field Examiner's Name  Date 12/26/2023
 Reviewer  Date 3/30/2024

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-17093

This map depicts the DOMESTIC system diagram.

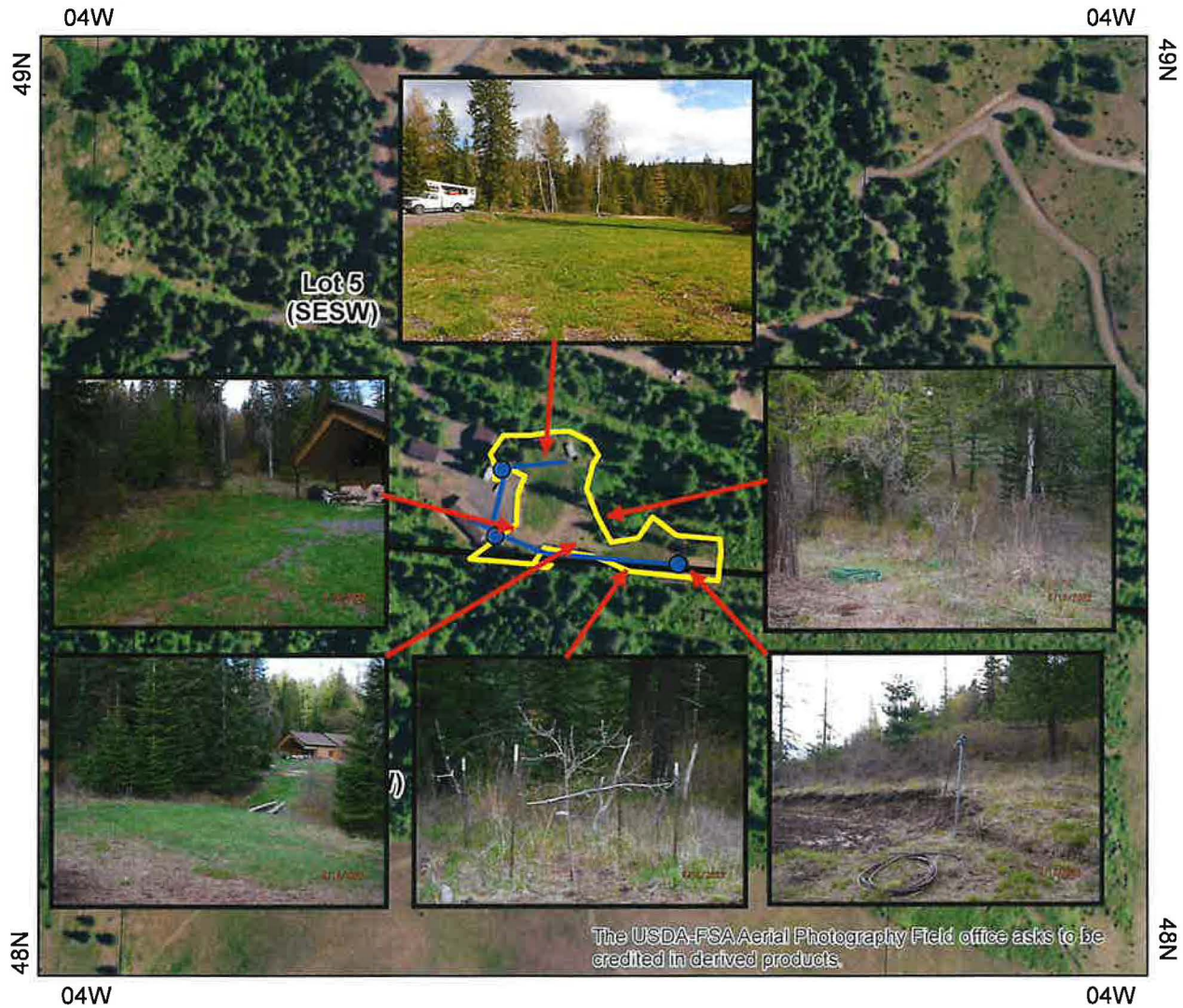


-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion



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This map depicts the IRRIGATION system diagram.



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



THEORETICAL PUMPING EQUATION(S) FOR WR# 95-17093

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 380 ft, and running at 45 psi.

PUMP EQUATIONS

WATER RIGHT No. 95-17093

D0069565	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP * 8.8 * Eff / H$	1.5	484.0816	0.8	380	45
Q = 0.022 cfs 9.8 gpm					

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D D0069565

Drilling Permit No. _____

Water right or injection well # _____

2. OWNER: Michael Lasneski

Name _____

Address 12811 N. Chase Rd.

City Rathdrum State ID Zip 83858

3. WELL LOCATION:

Twp. 48 North ☒ or South ☐ Rge. 04 East ☐ or West ☒

Sec. 05 1/4 NE 1/4 NW 1/4

Gov't Lot _____ County Kootenai

Lat. 47 32.456 (Deg. and Decimal minutes)

Long. 116 53.138 (Deg. and Decimal minutes)

Address of Well Site 12249 Bellgrove Rd.

City Coeur d'Alene

(Give at least name of road or distance to road or landmark)

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 _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
Bentonite	0	38	900 lbs.	Overbore

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6"	+2	42	.250	Steel	☒	☐	☐	☒
4"	-5	405	.200	PVC	☐	☒	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 42'

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method SawcutManufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
385	405	1/8x6	48	4"	PVC	.200

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method
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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) 100' Static water level (ft) 7'

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

Describe access port Welded Steel Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
	7	60 min.

Test method:

Pump	Bailer	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
10	0	3	Top Soil		X
10	3	38	Sandy Clay/Brown		X
8	38	40	Sandy Clay/Brown	X	
8	40	42	Decomposed Granite	X	
6	42	120	Decomposed Granite 2gpm@100'	X	
6	120	360	Soft Blk&Wht Granite 5gpm@180'	X	
6	360	405	Hard Blk,Wht&Gm Granite	X	
			7 gpm @380'		

Completed Depth (Measurable): 405'

Date Started: Sep 24, 2015

Date Completed: Sep 29, 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 H2O Well Service Inc. Co. No. 448

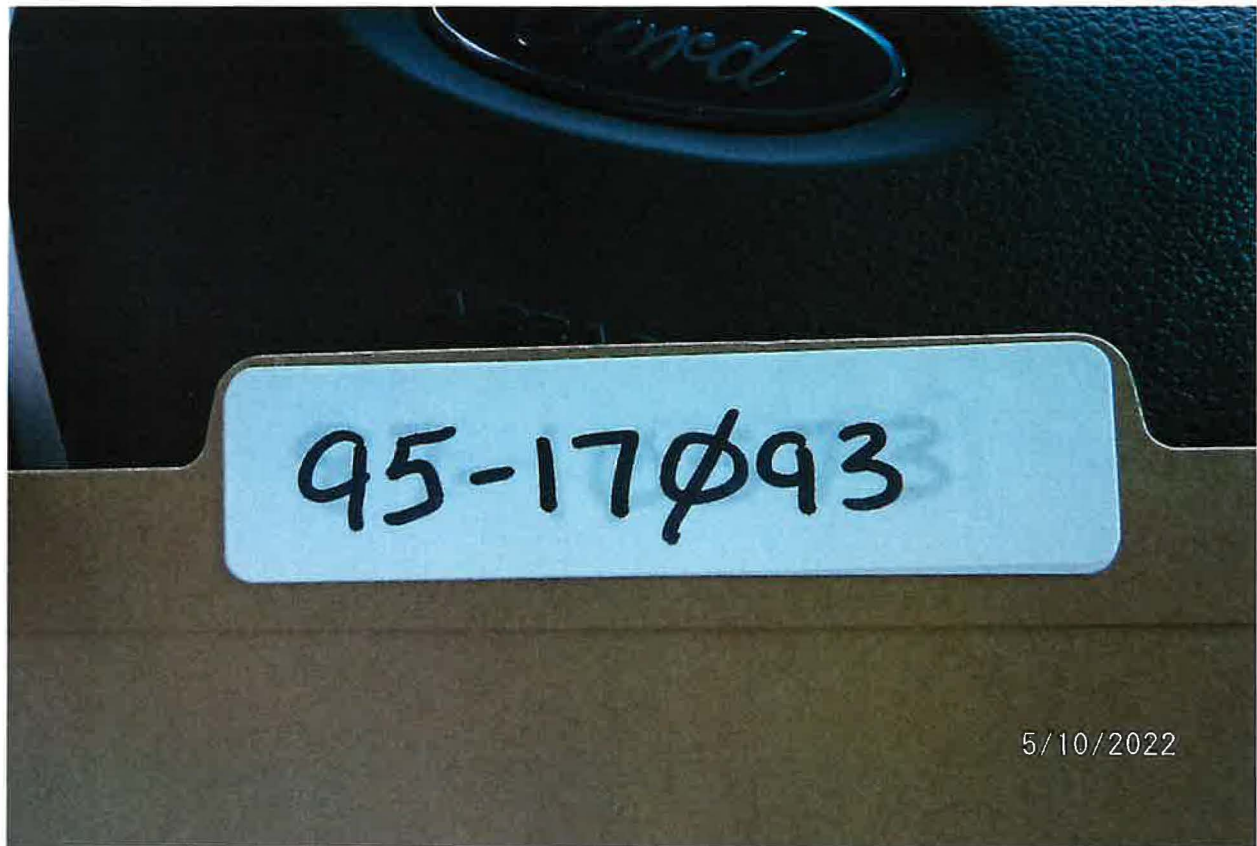
Principal Driller _____ Date Sep 30, 2015

Driller _____ Date _____

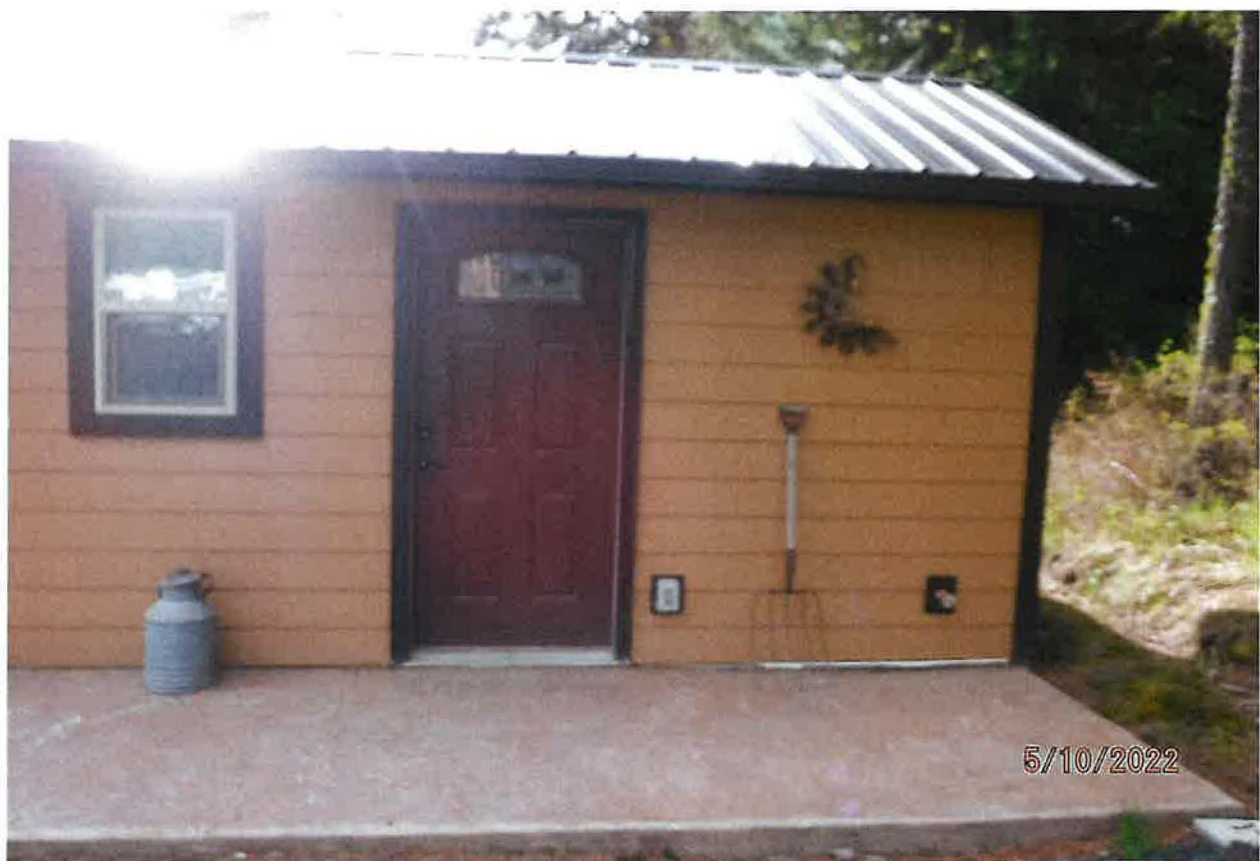
Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.



BENEFICIAL USE FIELD EXAMINATION DATE 5/10/2022



SMALL STRUTURE HOUSES GROUNDWATER WELL AND WATER SYSTEM COMPONENTS



POD – GROUNDWATER WELL D0069565



DIVERTING WORKS INCLUDES PRESSURE TANK THAT READ 45 PSI



1.5 HP FRANKLING PUMP MOTOR INSTALLED IN WELL



POU – DOMESTIC SHOP HOME



POU – DOMESTIC – RV BEING USED WHILE DEVELOPING 2ND HOME ON PROPERTY



POU – IRRIGATION



POU – IRRIGATION FRUIT TREES





POU – IRRIGATION – WATERING FROM HOSE AND/OR HOSE TO SPRINKLER





IRRIGATION POU

