

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-15125
Exam Date: 9/26/2016

1. Current Owner:

JOHN KILDOW 2707 S EVERGREEN LN COEUR D ALENE ID 83814 (208) 660-7217 And/Or

FRANK HETTMANN 16735 VISTA DEL VALLE CT MORGAN HILL CA 95037 (408) 779-2778 And/Or

GORDON GOODBAN 2239 CASTRO WAY SACRAMENTO CA 95818 (916) 451-7653 And/Or

FORD S DUNTON 2781 S EVERGREEN LN COEUR D ALENE ID 83814 (208) 661-7296 And/Or

KAREN WATTS 2617 S EVERGREEN LN COEUR D ALENE ID 83814 And/Or

COLLEEN PAIGE WALLEY 805 E SEATTLE AVE ELLENSBURG WA 98926 (208) 925-2062 And/Or

MOLLY OBETZ 2551 S EVERGREEN LN COEUR D ALENE ID 83814 (208) 660-4125

2. Accompanied by: Molly Obetz

3. **SOURCE:**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-11478, 95-11447, 95-11405, 95-15124, 95-13364, 95-14334, 95-17124, and 95-17125

2. Other water rights with the same point-of-diversion: 95-17125

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L3 (NE¼SW¼) Sec. 29, Twp 50N, Rge 03W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD location at 116° 43.944, 47° 38.806 D0061150 (A0020094)

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	03W	29									X L3					X L3			

Method of Determination: Google Earth and Arc map.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X Indicate weir size/pipe as applicable.X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.X Aerial Photo Attached (required for irrigation of 10+ acres).X 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
D0061150	FRANKLIN	1.5			

*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

2. Measurements: UNABLE TO PERFORM FLOW MEASUREMENT.

E. FLOW CALCULATIONSMeasured Method: THEORETICAL PUMPING EQUATION
ESTIMATES FLOW RATE AT 8.5 GPM OR 0.02 CFS.X Additional Computation Sheets Attached

F. VOLUME CALCULATIONS**2. Volume Calculations for Other Uses: DOMESTIC USE FOR 8 HOMES WITH IRRIGATION UP TO ½ ACRE**

8 HOMES X 1.2 AF = 9.6 AF

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Molly Obetz showed a well serving 8 homes. Well D0061150 had a 1.5hp pump running at 65 psi. I was unable to perform flow measurement because system was buried and also mixed with water from Coeur d' Alene Lake. Theoretical pumping equation estimates flow rate at 8.5 gpm or 0.02 cfs. Estimated flow matches what applicant thought the well produced and what drillers report estimated flow rate was. Application was for domestic for 8 homes with 4 acres of irrigation. Molly Obetz said they were fine having license show domestic for 8 homes with the irrigation of up to ½ acre per home in a named subdivision. System had a 1,000 gallon cistern to help with any high demand periods.

Overlap for this water right will be very complicated because there are numerous rights and recommendations. There are 3 licensed rights from Coeur d' Alene Lake for domestic use with up to ½ acre of irrigation. Those rights are 95-11478, 95-11447, and 95-11405. Those 3 licenses cover 3 of the 8 homes for surface water use. Adjudication recommendation 95-15124 covers 3 homes for the lake with a diversion rate of 0.08 cfs with no annual volume on recommendation. Recommendation 95-13364 covers another home and is for 0.04 cfs and up to 13,000 gpd. Now 7 of the 8 homes are covered by rights from the lake for domestic use. There is 1 home that is not covered by a right for use out of the lake and is working towards getting it covered.

This permit when licensed will cover 8 homes. Overlap for this license will be a little simple by listing all rights and recommendations and limiting them to 9.6 acre feet. We do not want to put a diversion limitation of these rights yet because no other rights have any overlap and we do not know the system capacity when including the lake source. This license will be issued for 0.02 cfs for domestic use for 8 homes with the irrigation of up to ½ acre per home with annual volume of 9.6 acre feet. License will also add a QQ that was not on permit but was applied because Government Lot 3 was identified. 50N 03W 29 NWSE Govt Lot 3 will be added as a place of use on license.

Have conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.02 CFS	9.6 AF
<u>Totals:</u>		0.020 CFS	9.60 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. AUTHENTICATIONField Examiner's Name Adam Friedman Date 3-6-2017Reviewer Morgan Case Date 3/29/17

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-15125

DOMESTIC.



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

0 0.035 0.07 0.14 Miles



State of Idaho
Department of Water Resources
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SYSTEM DIAGRAM



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

0 0.0275 0.055 0.11 Miles



Water Right Map



Water Rights from Lake Coeur d Alene

95-11478 = 0.04 CFS and 1.2 AF

95-11447 = 0.04 CFS and 1.2 AF

95-11405 = 0.04 CFS and 1.2 AF



Adjudication Recommendation Map



Recommendation from Lake Coeur d Alene

95-13364 = 0.04 CFS and up to 13,000 GPD

95-15124 = 0.08 CFS



Adjudication Recommendation Map



Recommendation from Groundwater

95-14334 = 0.04 CFS and up to 13,000 GPD



PERMIT MAP



Water Permit to be Licensed 95-15125

Licensed for 0.02 CFS and 9.6 AF for 8 homes



A 1.5 HP PUMP RUNNING AT 65 PSI WAS INSTALLED IN WELL D0061150. WELL WAS DRILLED TO 420 FEET AND IDWR WILL ASSUME PUMP IS SET AROUND 405 FEET.

PUMP EQUATIONS WATER RIGHT No. 95- 15125						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	1.5	555.3401	0.8	405	65
Q = 0.019 cfs 8.5 gpm						

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0061150
Drilling Permit No. 804329
Water right or injection well #

2. OWNER: _____
 Name John Kildow
 Address 2707 S. Evergreen Ln.
 City Coeur d'Alene State ID Zip 83814

3. WELL LOCATION:
Twp. 50 North ☒ or South ☐ Rge. 3 East ☐ or West ☒
Sec. 29 10 acres 1/4 **NE** 40 acres 1/4 **SW** 160 acres 1/4

Gov't Lot _____ County Kootenai
Lat. 47 ° 38.808 (Deg. and Decimal minutes)
Long. 116 ° 43.952 (Deg. and Decimal minutes)
Address of Well Site 2707 Evergreen Ln
City Coeur d'Alene

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 _____

Seal material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method/procedure
Bentonite Chips	0	51	1500lbs	Overbored

8. CASING/LINER:					Casing	Liner	Threaded	Welded
Diameter (nominal)	From (ft)	To (ft)	Gauge/ Schedule	Material				
6	+2	51	.250	Steel;	☒	☐	☐	☒
4	20	420	40	PVC	☐	☒	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 51

9. PERFORATIONS/SCREENS:
Perforations ☒ Y ☐ N Method _____

Manufactured screen ☐ Y ☒ N Type _____

Method of installation

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
320	420	1/8x6	100	4	PVC	40

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

10.FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method

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) 120 Static water level (ft) 30

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

Describe access port _____

Well test: _____ Test method: _____

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
420	10	240	☐	☐	☒	☐
			☐	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

[illegible]

~~RECEIVED~~

SEP 21 2012

~~IDWR / NORTH~~

Completed Depth (Measurable): 420

Date Started: Sep 7, 2012 Date Completed: Sep 11, 2012

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 **Horsley Drilling Inc.** Co No. **632**

*Principal Driller C-Mark Fessler Date Sep 18, 2012

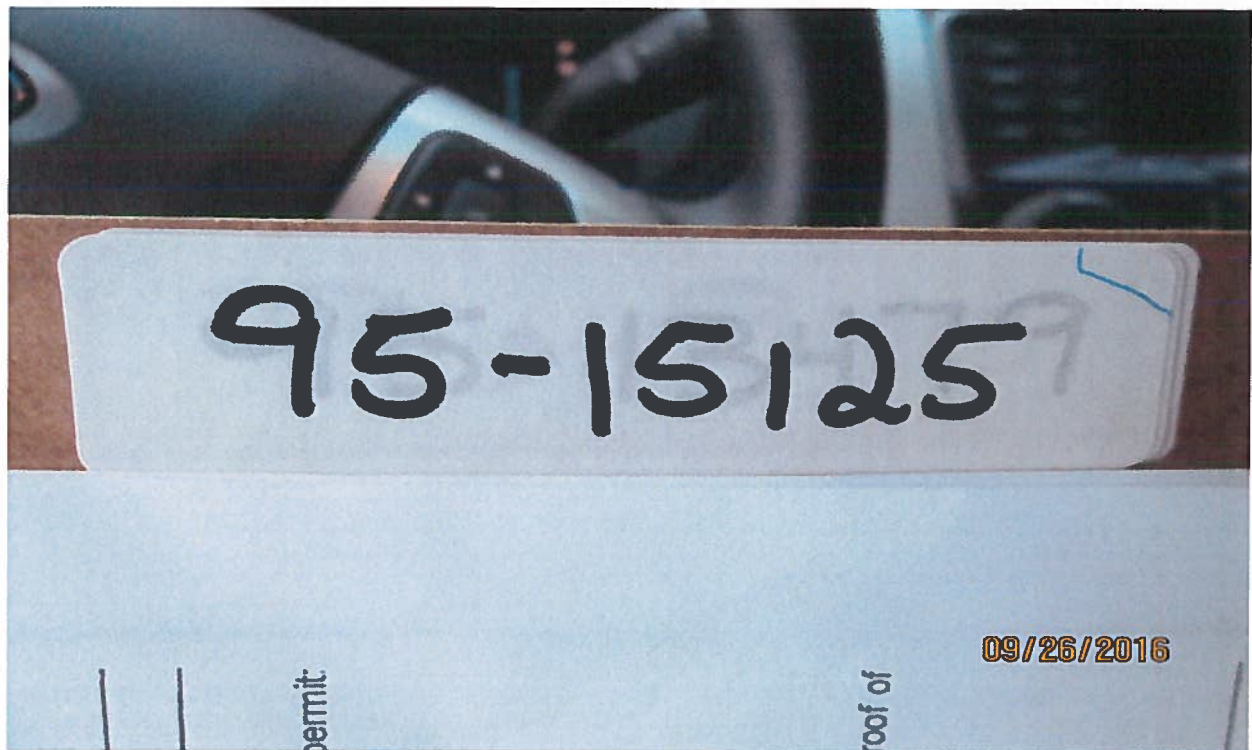
*Driller Steve C. Houder Date Sep 18, 2012

*Operator || Zach Hulse Date Sep 18, 2012

Operator Date

* Signature of Principal Driller and rig operator are required.

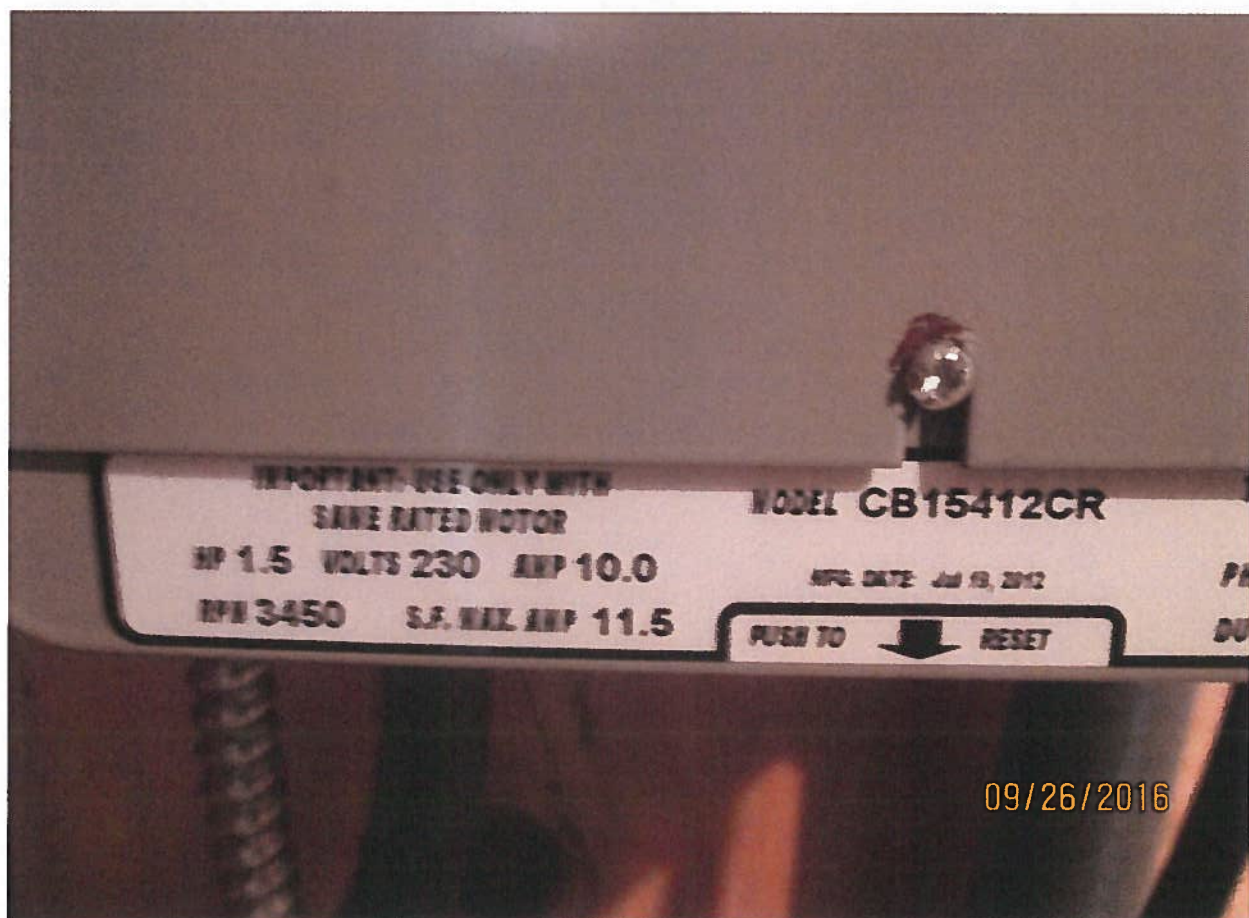
SON 03W 29



Well D0061150 given IDWR tag A0020094.



Well D0061150



1.5hp pump in well.



System PSI at 65.



Inside pump house where water from Lake Coeur d' Alene and well are mixed together.



1,000 gallon cistern on system.



Home 1 Kildow Subdivision LT 10, BLK 1.



Home 2 Kildow Subdivision LT 5,6, BLK 2.



Home 3 Kildow Subdivision LT 7, BLK 1.



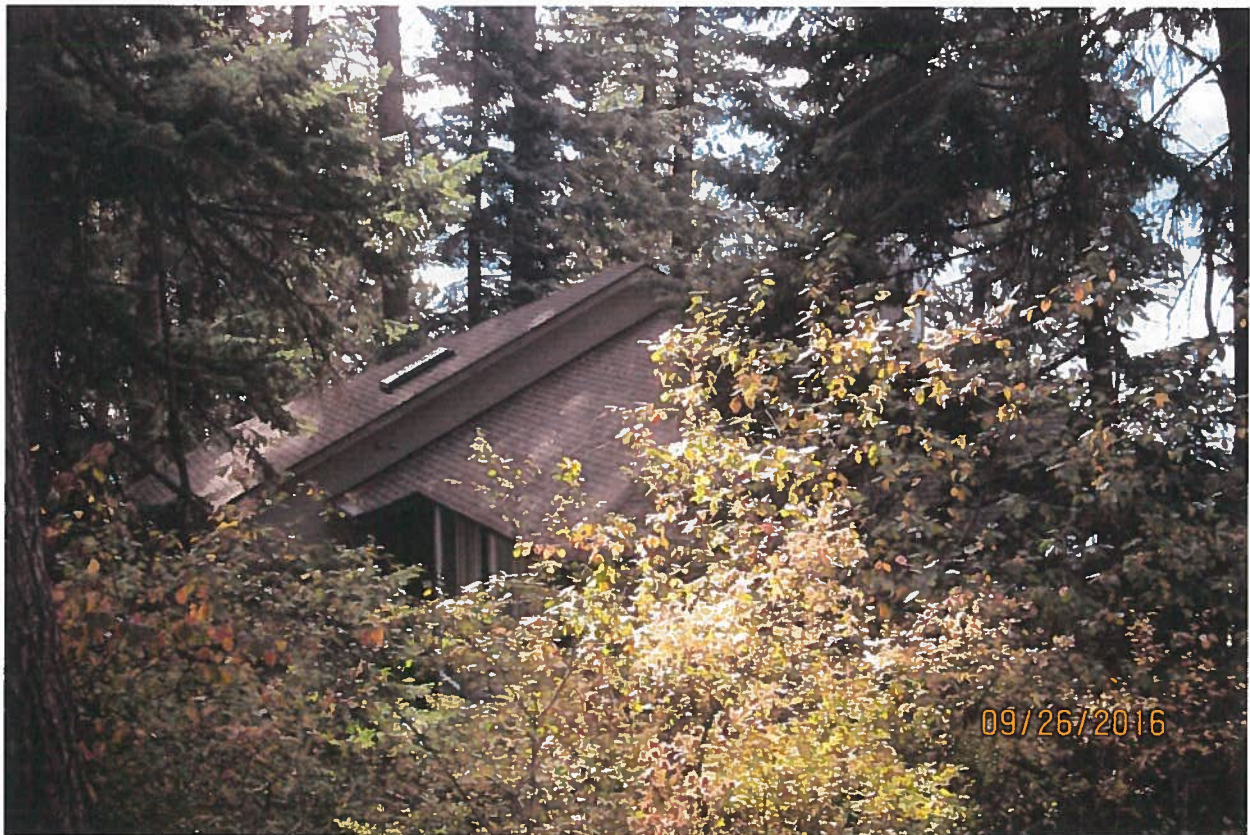
Home 4 Kildow Subdivision LT 5, BLK 1.



Home 5 Kildow Subdivision LT 3, BLK 2.



Homes 6 and 7 Kildow Subdivision LT 4,3,2,1, BLK 1.



Home 8 Kildow Subdivision LT 1, BLK 1. Address 2781 S Evergreen Ln.