

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-12123
Exam Date: 8/20/2015

1. Current Owner:
KENNETH HOWARD 6902 E SLEEPY LANE COEUR D ALENE ID 83814 (208) 667-1658 And/Or

BARBARA HOWARD 6902 E SLEEPY LANE COEUR D ALENE ID 83814 (208) 667-1658 And/Or
2. Accompanied by: Kenneth Howard
Phone No: _____
Address: _____
Relationship to Permit Holder: _____

3. SOURCE: GROUND WATER**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: 95-12125

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 9, Twp 50N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 116° 42.043, 47° 41.491 (A0015467)

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	9													X				

PLACE OF USE: IRRIGATION

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	9													3.5				3.5

Total Acres: 3.5

Method of Determination: GPS and maps.

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
D0055604		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: _____

E. FLOW CALCULATIONS

Measured Method: _____

_____ Additional Computation Sheets Attached

UNABLE TO PERFORM MEASUREMENT BECAUSE NO EXPOSED PIPES BEFORE WATER WENT INTO STORAGE TANK. THEORETICAL PUMPING EQUATION ESTIMATES

$$(5 \text{ HP})(8.8)(0.8) / 685 + (20 \times 2.3087) = 0.05 \text{ CFS}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$3.5 \text{ AC} \times 3 \text{ AF} = 10.5 \text{ AF}$$

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

$$0.05 \text{ CFS} \times 246 \times 1.9835 = 24.4 \text{ AF}$$

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

$$10.5 \text{ AF}$$

2. Volume Calculations for Other Uses: DOMESTIC USE FOR 1 HOME = 0.6 AF

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM SHOWED THAT APPLICANT TWO PERMITS FROM SAME WELL. APPLICANT HAD DRILLED WELL AND MADE HOME SITE THAT WAS STUBBED OUT AND READY TO BE BUILT ON. APPLICANT SAID HIS KIDS WOULD CAMP THERE DURING THE SUMMER USING WATER FOR DOMESTIC PURPOSES AND HOME WOULD BE BUILT EVENTUALLY. IDWR WILL GIVE THE SITE CREDIT FOR BEING STUBBED AND GIVE DOMESTIC USE FOR 0.6 AF. APPLICANT HAD A LOW PRODUCING WELL WITH 3K STORAGE TANK. APPLICANT WOULD IRRIGATE AS MUCH AS HE COULD EARLY IN SEASON WHILE WELL WAS STILL PRODUCING GOOD. APPLICANT WOULD THEN CUT BACK ON IRRIGATING OUTER PARTS OF PROPERTY AND ONLY IRRIGATE AROUND HOME SITE. APPLICANT HAD FROST FREE HOOK UPS ALL OVER PROPERTY FOR EASY ACCESS FOR WATERING. LICENSE WILL BE ISSUED FOR 3.5 ACRES OF IRRIGATION WITH ANNUAL VOLUME OF 10.5 AF.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

BENEFICIAL USE

DOMESTIC

IRRIGATION

PERIOD OF USE

01/01 to 12/31

03/15 to 11/15

DIVERSION RATE

0.04 CFS

0.05 CFS

ANNUAL VOLUME

0.6 AF

10.5 AF

Totals:

0.050 CFS

11.10 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

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

I. AUTHENTICATION

Field Examiner's Name

Adam Franklin

Date

2/23/2016

Reviewer

Keith E. Franklin

Date

2/24/2016

State of Idaho
Department of Water Resources
Water Right License
95-12123
Domestic

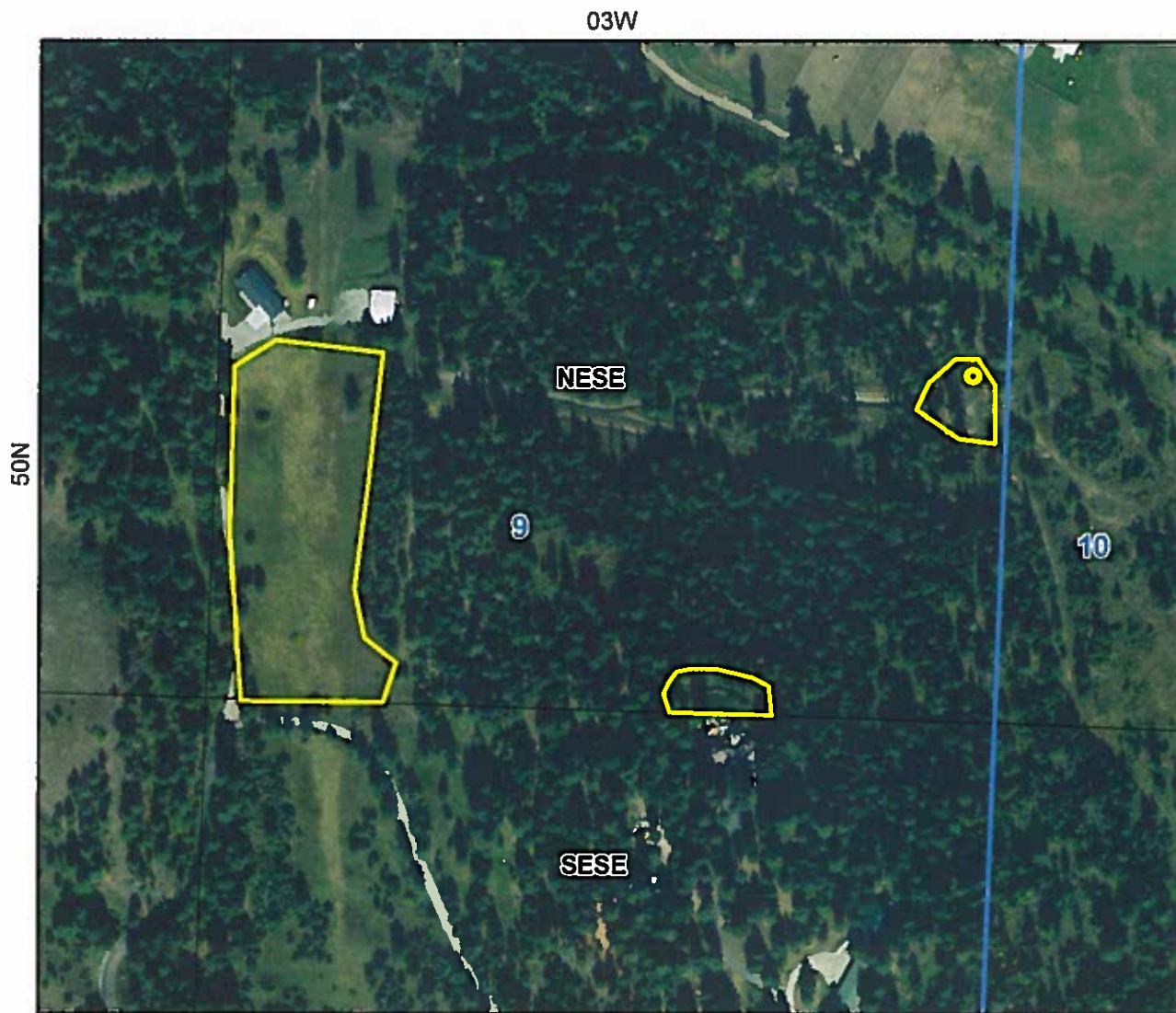


-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.035 0.07 0.14 Miles



State of Idaho
Department of Water Resources
Water Right License
95-12123
Irrigation



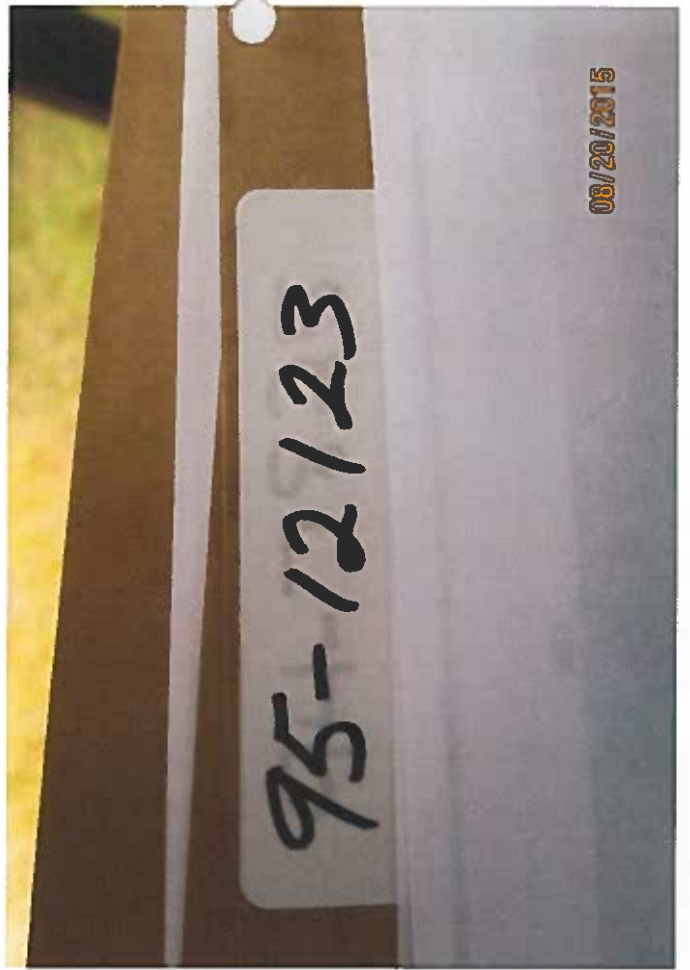
0 0.0375 0.075 0.15 Miles

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



APPLICANT PROVIDED SHEET SHOWING 5 HP PUMP THAT WAS INSTALLED. IDWR IS ASSUMING PUMP IS SET AT 685 FEET AND APPLICANT SAID SYSTEM RAN ON 20 PSI.

PUMP EQUATIONS WATER RIGHT No. 95-12123 & 95- 12125						
		HP	H in feet	Efficiency as a decimal	Pumpin g lift in feet	System pressur e in PSI
Q =	HP*8.8*Eff/ H	5	731.258 5	0.8	685	20
Q = 0.048 cfs 21.6 gpm						



95-12123



95-12123



July 28, 2008

Mr. Kent Howard

To our Valued Customer: "Estimate Prepared Prior to Well Drilling and Site Excavation"

We are pleased to submit the following estimate/proposal for the installation of your system. Our estimate is based on a well depth of 300' with an estimated well production per minute. Your system will include the following:

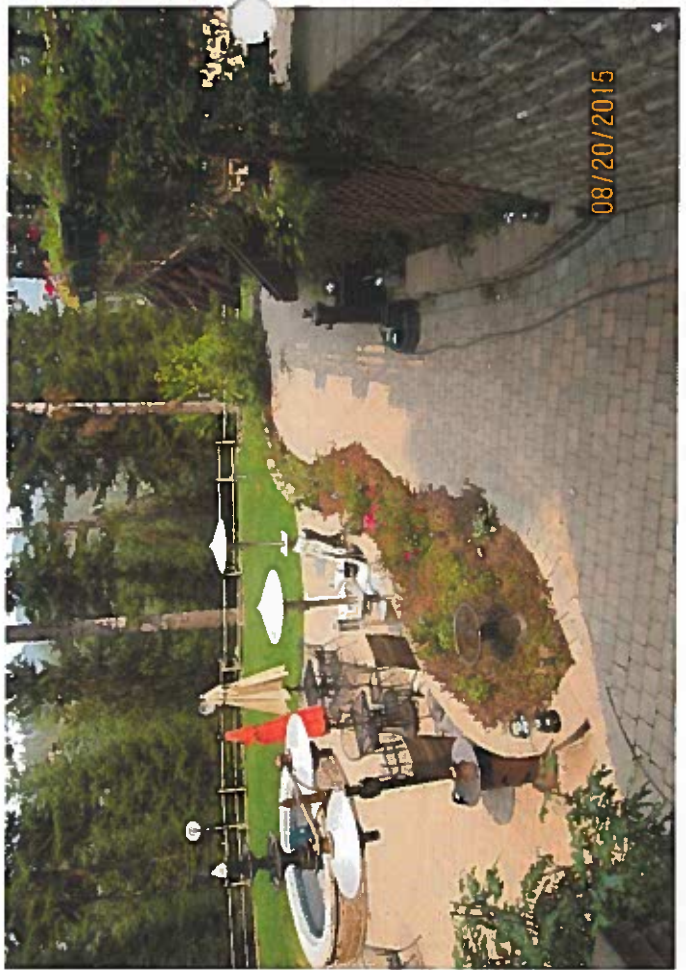
"TOP OF WELL"

- 1 ea. 5 HP, 25 GPM, pump/motor & 3 Phase Starter
- 1 ea. 5-year extended pump and motor warranty
- 273 lf. 1 1/4" galvanized drop pipe
- 2 ea. 1 1/4" check valves
- 280 lf. #10/4 TW submersible pump cable
- 1 ea. Motor splice and tape
- 1 ea. 6" cast iron well seal
- 1 ea. Electrical permit
- 1 ls. Labor to install system to "top of well"

Subtotal "Top of Well"

"RESERVOIR PUMPING SYSTEM"

- 1 ea. 3000 Gallon concrete storage tanks, vents, risers and delivery
- 1 ls. Goulds 25 GPM Pump, 1HP Motor & Variable Speed Control
- 1 ea. 5-year extended pump and motor warranty
- 1 ls. Plumbing in Tank / flow sleeve / 4 gal pressure tank



95-12123



08/20/2015

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0055604

Drilling Permit No. 853090
Water right or injection well # _____

2. OWNER

Name Ken Howard
Address 6902 East Sleepy Lane
City Coeur d' Alene State ID Zip 83814

3. WELL LOCATION:

Twp. 50 North ☒ or South ☐ Rge. 3 East ☐ or West ☒
Sec. 15 1/4 NW 1/4 NW 1/4
10 acres 40 acres 160 acres

Gov't Lot _____ County Kootenai
Lat. _____ (Deg. and Decimal minutes)
Long. _____ (Deg. and Decimal minutes)
Address of Well Site 6902 East Sleepy Lane

City Coeur d' Alene
Lot _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ 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 ft³)	Placement method/procedure
Bentonite	0	20	300 lbs	Dry Pour
Granular				

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6	+3	381	.250	Steel	☒	☐	☐	☒
4	-10	700	.200	PVC	☐	☒	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 381

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method Drilled 3/8" Holes
Manufactured screen ☐ Y ☒ N Type _____
Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
640	700	3/8"	220	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 ft³)	Placement method
-----------------	-----------	---------	-----------------------	------------------

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____
Describe control device Steel Cap Welded

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 25 Static water level (ft) 80
Water temp. (°F) _____ Bottom hole temp. (°F) _____

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
100%	20	1 Hour	☐	☐	☒	☐

Water Quality test or comments: Clear, Cold, No Smell

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
8	0	5	Clay and cobbles		X
8	5	25	Sand silty clay	X	
8	25	110	Clay orange		X
8	110	330	Clay with shale gravel seams	X	
8	330	350	Clay blue green soft		X
8	350	370	Shale blue gray fractured		X
8	370	381	Shale blue green firm		X
6	381	440	Shale green blue firm		X
6	440	448	Shale blue green very fractured	X	
6	448	520	Shale blue green medium		X
6	520	568	Shale blue gray fractured	X	
6	568	630	Shale blue gray firm		X
6	630	660	Shale blue gray fractured	X	
6	660	700	Shale blue gray firm		X

RECEIVED

SEP 15 2008

IDWR/North

UNITED
PUMP & DRILLING
3125 W. Hayden Ave. Hayden, ID 83835
Office (800) 682-2641 (208) 772-7867

Completed Depth (Measurable) 700
Date: Started 8-29-08 Completed 9-05-08

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 United Pump & Drilling Co. No. 636
Principal Driller Jason Beckham Date 9-8-08
Driller _____ Date _____
Operator II _____ Date _____
Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

50N 03W 15