

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-13563

Exam Date: 8/4/2016

1. Current Owner:

MARK K WILLIAMS 29599 S HWY 97 HARRISON ID 83833 (509) 475-2345

And

JAMES A DAVIS 6893 W CENTURY DR POST FALLS ID 83854 (208) 665-7538

And

MERALYN HARRIS 814 E FOSTER AVE COEUR D ALENE ID 83814 (208)765-1292

And

FRED HARRIS 814 E FOSTER AVE COEUR D ALENE ID 83814 (208)765-1292

2. Accompanied by: Mark Williams

Relationship to Permit Holder: Applicant

3. **SOURCE:**

GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Claims 95-4245, 95-16598, 95-16567

2. Other water rights with the same point-of-diversion: Claims 95-4245, 95-16598, 95-16567

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

GROUND WATER L2 (SW¼NW¼) Sec. 30, Twp 49N, Rge 03W, B.M. KOOTENAI County

Method of Determination: POD location at 47° 33.902, 116° 47.101 (A0020098)

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	
49N	03W	30							X L 2										

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.

X

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
95-71-N-18	FRANKLIN	2			

*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: UNABLE TO PERFORM FLOW MEASUREMENT. WATER CAME FROM WELL AND WENT DIRECTLY INTO PRESSURE TANK. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 20.9 GPM OR 0.05 CFS.

Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses: DOMESTIC FOR 3 HOMES WITH IRRIGATION OF UP TO ½ ACRE

$$3 \text{ HOMES} \times 1.2 \text{ AF} = 3.6 \text{ AF}$$
G. NARRATIVE/REMARKS/COMMENTS

Field exam showed applicants had well that supplied water to 3 homes. Well was drilled in 1971 with 2 HP pump running at 40 psi. Application was originally for 4 homes, however 4th lot was never stubbed in and Mr. Williams didn't know if a home would ever be built on empty lot. License will be changed to show domestic with up to ½ acre of irrigation per home and the irrigation component will be removed. Theoretical pumping equation show pump can produce 20.9 gpm or 0.05 cfs. License will be issued for 0.05 cfs with annual volume of 3.6 af.

Have conditions of permit approval been met? X 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	0.05 CFS	3.6 AF
	<u>Totals:</u>	0.050 CFS	3.60 AF

2. Recommended Amendments

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

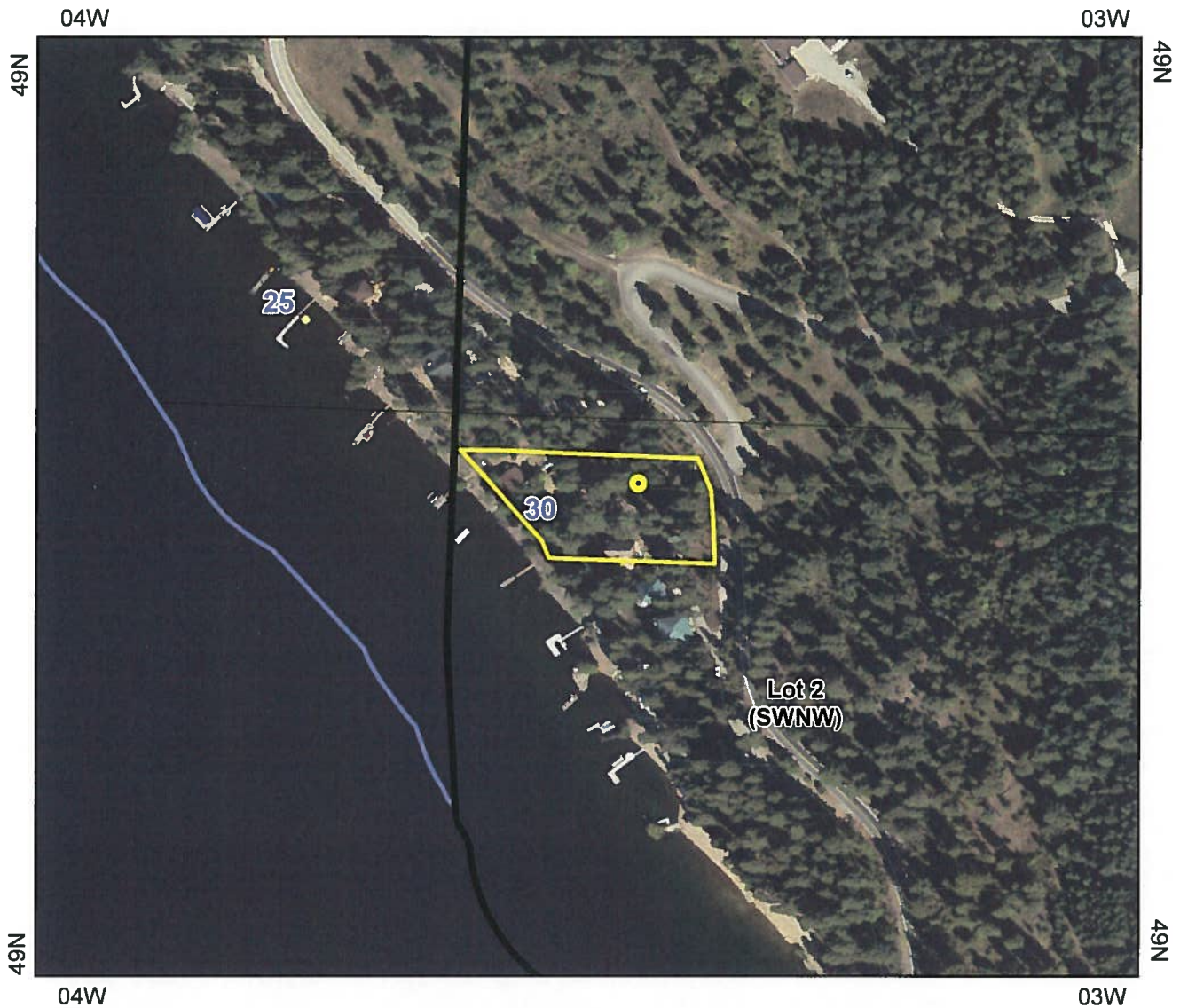
 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name Adam Funder Date 10-6-2016

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
95-13563



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

0 0.035 0.07 0.14 Miles



THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-13563. 2 HP PUMP AT ASSUMED DEPTH OF 210 FEET RUNNING AT 40 PSI.

PUMP EQUATIONS WATER RIGHT No. 95- 13563						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	2	302.517	0.8	210	40
Q = 0.047 cfs 20.9 gpm						

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

1. WELL OWNER

Name AKNOLD SHARP
Address E 46 39th AVE SPOKANE WASH
Owner's Permit No. 95-71-N-18

7. WATER LEVEL

Static water level 25 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Temperature cold F. Quality good
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

8. WELL TEST DATA

☐ Pump ☐ Bailor ☒ Other Air

Discharge G.P.M.	Draw Down	Hours Pumped
<u>30-40</u>	<u>-</u>	<u>3</u>

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test
☐ Municipal ☐ Industrial ☐ Stock

4. METHOD DRILLED

☐ Cable ☒ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 145 feet
Casing schedule: ☒ Steel ☐ Concrete
Thickness Diameter From To
250 inches 6 inches 1 foot 145 feet
025 inches 5 inches 140 feet 225 feet

Was a pecker or reel used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches
Number From To
_____ perforations _____ feet _____ feet
_____ perforations _____ feet _____ feet
_____ perforations _____ feet _____ feet

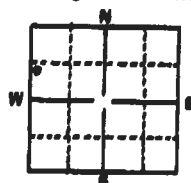
Well screen installed? ☐ Yes ☒ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No Size of gravel _____
Placed from _____ feet to _____ feet

Surface seal? ☒ Yes ☐ No To what depth 19 feet
Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County KOOTENAI

SW 1/4 NW 1/4 Sec. 30, T. 49 N., R. 3 E.

10.

Work started 5/31/71 finished 6/4/71

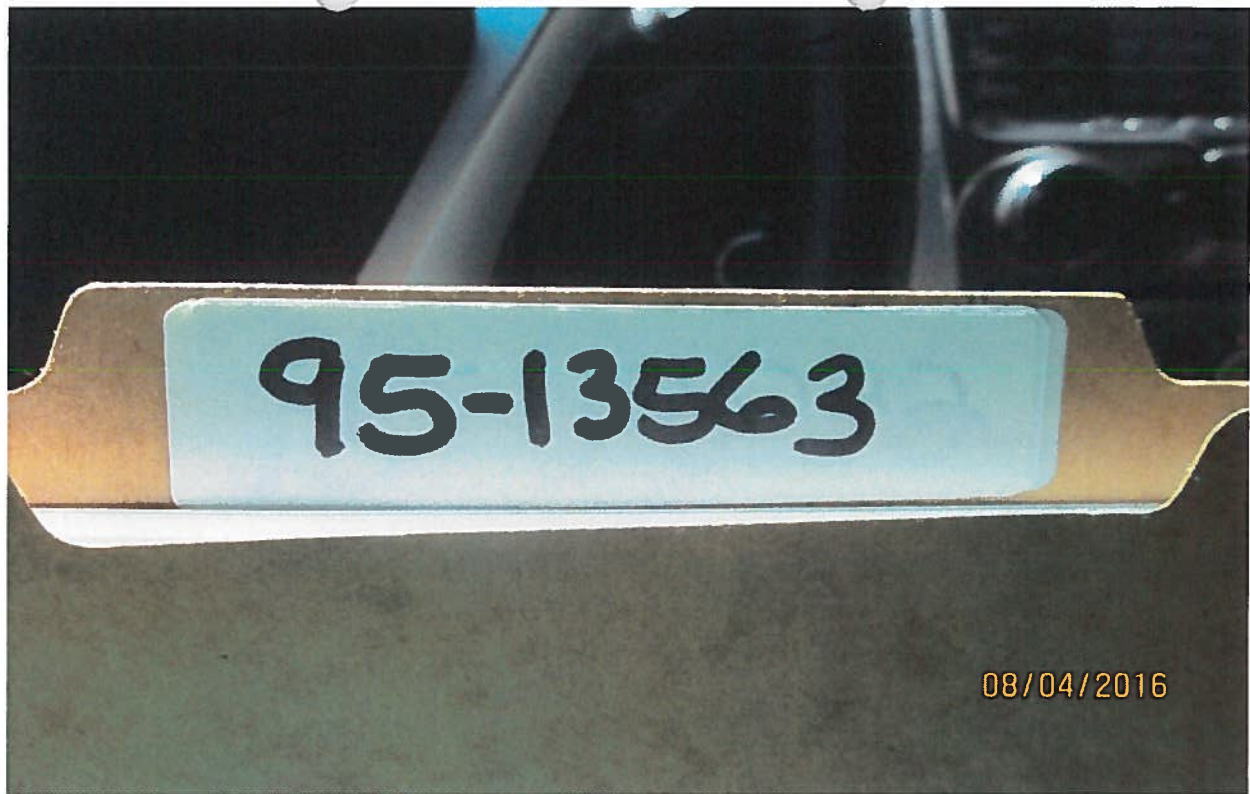
11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

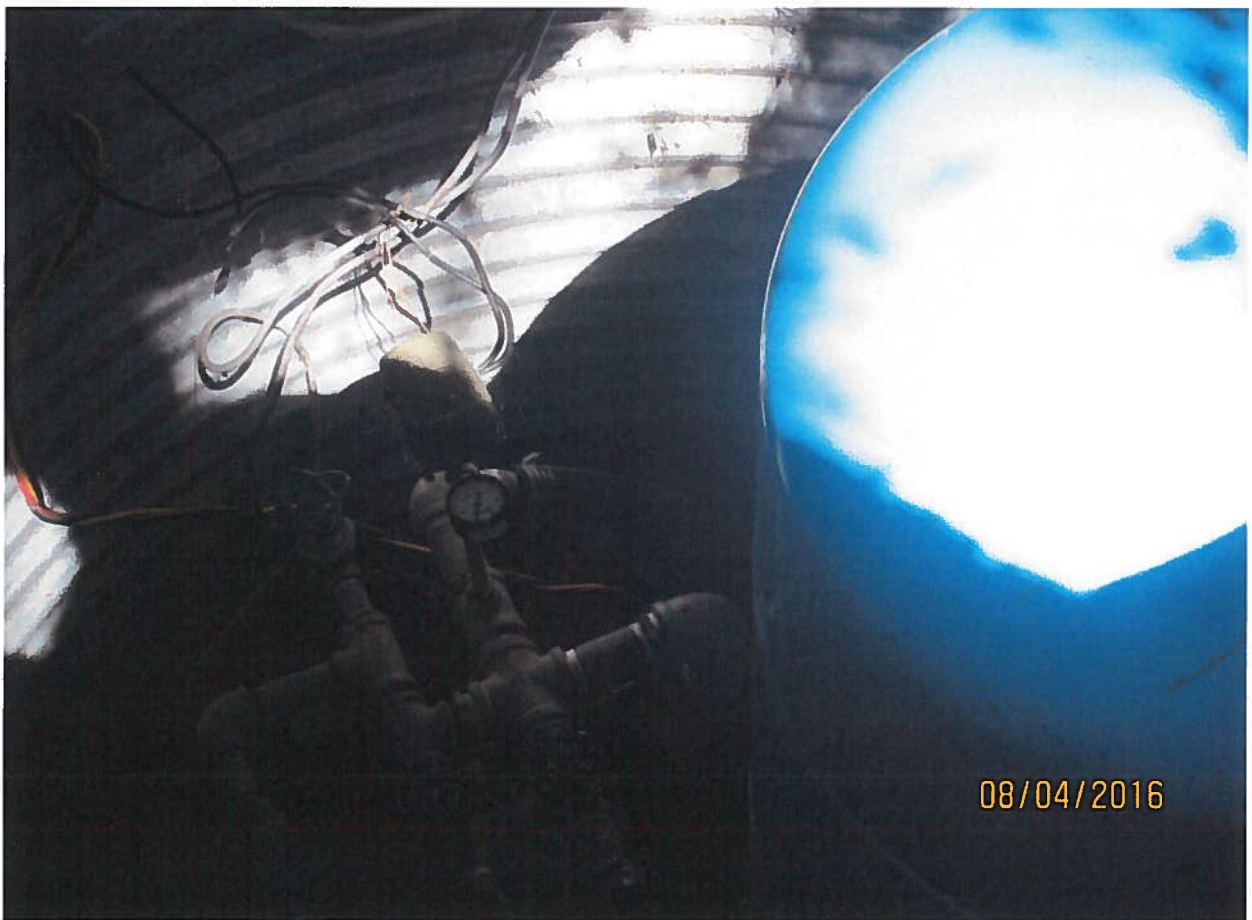
Agua Drilling & Dev. Inc. 163
Driller's or Firm's Name Number
RTI OROFINO, Id.
Address
E. Lewis 6/5/71
Signed by Date

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT



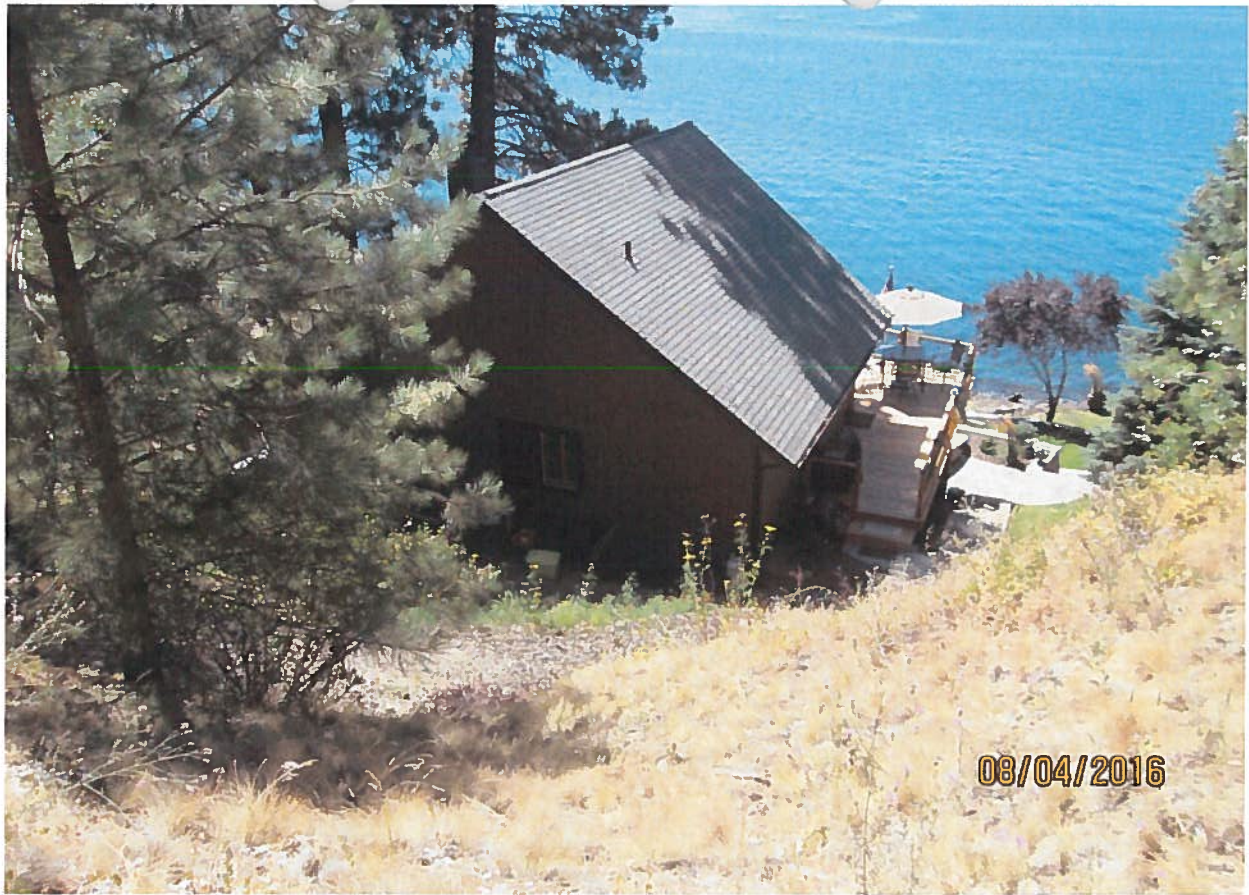
2 HP pump in well drilled by Arnold Sharp to 225 feet. Assumed pump set at 210 feet.



Well with pressure tank and PSI at 40. Lines going to all 3 homes.



Home 1, Leland Turner Bay Subdivision Lt 21, Blk 2.



Home 2, Leland Turner Bay Subdivision Lt 20, Blk 2.



Home 3, Leland Turner Bay Subdivision Lt 19, Blk 2.