

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 97-7440

Exam Date: 7/15/2015

1. Current Owner: H FORD WILLEY
BOX 335
PRIEST RIVER ID 83856

And/Or

DONNA COLLIER
PO BOX 1449
PRIEST RIVER ID 83856
(208) 610-0251

2. Accompanied by: Donna Collier

3. SOURCE

TRIBUTARY

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: None

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NE1/4NW1/4 Sec. 30, Twp 56N, Rge 04W, B.M. BONNER County

Method of Determination: GPS and maps. POD location at 48° 10.706, 116° 53.049 (A0015307)

2.

PLACE OF USE: IRRIGATION

[illegible]

Total Acres: 137

PLACE OF USE: DOMESTIC

[illegible]

Method of Determination:

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
D0039791		5			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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N/A

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT BECAUSE NO EXPOSED PIPES ON WELL.
THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 36 GPM OR 0.08 CFS.

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

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

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

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

2. Volume Calculations for Other Uses:

DOMESTIC USE FOR 1 HOME AND DOMESTIC USES IN ONE BOAT SHOP = 1.2 AF

WELL CAN PRODUCE 36 GPM OR 51,705.22 GPD

51,705.22 X 214 DAYS OF IRRIGATION SEASON = 11,064,917.08 GALLONS

11,064,917.08 / 325,850 = 34 AF

G. NARRATIVE/REMARKS/COMMENTS

UNABLE TO PERFORM MEASUREMENT DUE TO LACK OF PROPER LOCATION TO PUT FLOW METER. THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 36 GPM OR 0.08 CFS. APPLICATION AND PERMIT WAS ISSUED FOR 280 ACRES OF IRRIGATION. UPON ANALYSIS USING MAPPING TOOLS IT WAS DETERMINED THAT ONLY 145 ACRES WAS ACTUALLY BEING IRRIGATED. THIS IRRIGATION PERMIT IS ACTUALLY BEING USED FOR WETLAND MITIGATION. THE PRIMARY MEANS OF IRRIGATION USED IS FLOOD. APPLICANT HAS 5 HP PUMP IN WELL THAT IS PUMPED TO SURFACE AND THEN A SURFACE BOOSTER PUMP WILL PUMP THROUGH FIRE HOSE TO LOCATION FOR FLOOD IRRIGATION. APPLICANT WILL BE LIMITED BY AMOUNT OF WATER WELL CAN ACTUALLY PRODUCE FOR IRRIGATION. WELL ALSO SUPPLIES 2 HOMES, 1 BEING AN INDUSTRIAL LOCATION WITH USES FOR BATHROOMS AND WASHROOMS ONLY. EXPLANATION OF IRRIGATION AND ANNUAL VOLUME WILL BE SHOWN ON BENEFICIAL USE EXAM.

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>
IRRIGATION	04/01 to 10/31	0.080 CFS	34.00 AF
DOMESTIC	01/01 to 12/31	0.060 CFS	1.20 AF
<u>Totals:</u>		0.080 CFS	35.20 AF

2. Recommended Amendments

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

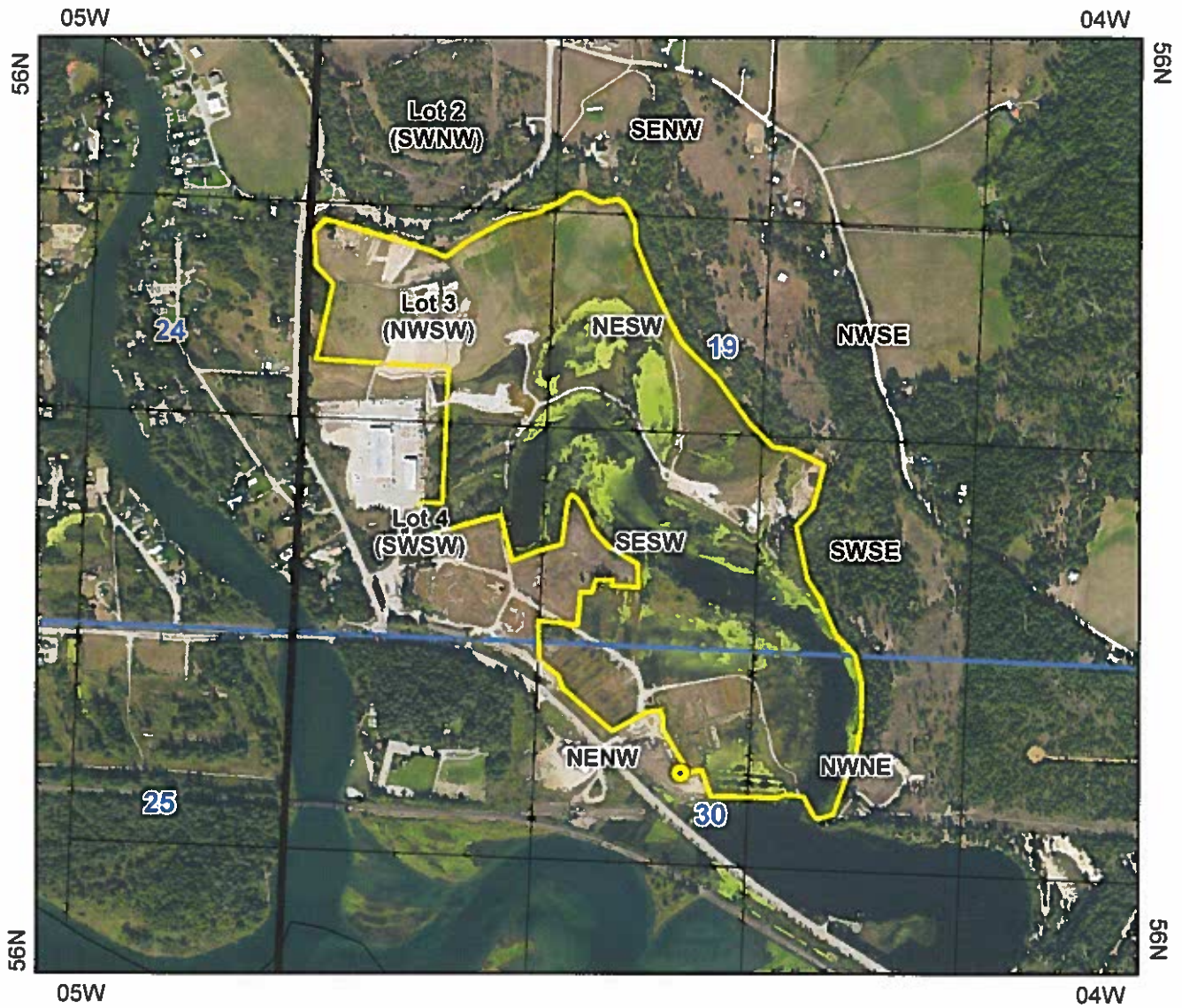
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam Friedman Date 11-5-2015

Reviewer Keith Franklin Date 11/27/2015

State of Idaho
Department of Water Resources
Water Right License
97-7440



0 0.125 0.25 0.5 Miles

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



State of Idaho
Department of Water Resources
Water Right License
97-7440



0 0.0475 0.095 0.19 Miles

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



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-  Point of Diversion
-  Place Of Use Boundary
-  Townships
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0 0.125 0.25 0.5 Miles



THEORETICAL PUMPING EQUATION FOR WATER RIGHT 97-7440

PUMP EQUATIONS WATER RIGHT						
No.			97-7440			
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	5	442.517	0.8	350	40
Q = 0.080 cfs 35.8 gpm						

6/02

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. 0039791
 DRILLING PERMIT NO. F26333
 Water Right or Injection Well No. _____

2. OWNER:

Name FORD WILLY
 Address CHERRY GROVE
 City PRIEST RIVER State ID Zip 83856

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 54 North ☒ or South ☐
 Rge. 4 East ☐ or West ☒
 Sec. 30 1/4 NE 1/4 NW 1/4
 Gov't Lot _____ County BONNER

Lat: _____ Long: _____
 Address of Well Site Hwy 2 1/2 mi. E out of Priest River
Old L.P. mill site City PRIEST RIVER
 (Give at least name of road - Distance to Road or Landmark)
 Lt. _____ Blk. _____ Sub. Name _____

4. USE

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Quantity/Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>20</u>	<u>100 lbs</u>	<u>Temp Casing</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 345
 Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8</u>	<u>1</u>	<u>345</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____
 Packer ☒ Y ☐ N Type K

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method Factory
 Screen Type & Method of Installation Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>345</u>	<u>350</u>	<u>30</u>	<u>304</u>	<u>8"</u>	<u>SS</u>	☐	☐
<u>350</u>	<u>355</u>	<u>30</u>	<u>304</u>	<u>8"</u>	<u>SS</u>	☐	☐
<u>355</u>	<u>360</u>	<u>35</u>	<u>304</u>	<u>8"</u>	<u>SS</u>	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

Office Use Only

Well ID No. _____
 Inspected by _____
 Twp _____ Rge _____ Sec _____
 1/4 _____ 1/4 _____ 1/4 _____
 Lat: _____ Long: _____

12. WELL TESTS:

☐ Pump ☒ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>Going to pump test</u>	<u>11</u>	<u>11</u>	<u>1hr</u>
<u>10</u>	<u>11</u>		

Water Temp. COLD Bottom hole temp. _____

Water Quality test or comments: _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>20</u>	<u>GRAVEL, SAND</u>		☒
<u>8</u>	<u>20</u>	<u>140</u>	<u>Fine Silty Gravel</u>		☒
<u>8</u>	<u>140</u>	<u>260</u>	<u>Fine Silty sand</u>		☒
<u>8</u>	<u>260</u>	<u>330</u>	<u>Sand, some Gravel</u>		☒
<u>8</u>	<u>330</u>	<u>345</u>	<u>Sand med. coarse</u>		☒
<u>8</u>	<u>345</u>	<u>350</u>	<u>Coarse Sand to Gravel</u>		☒
<u>8</u>	<u>350</u>	<u>355</u>	<u>Coarse Sand to Gravel</u>		☒
<u>8</u>	<u>355</u>	<u>360</u>	<u>Coarse Sand more Gravel</u>		☒
<u>8</u>	<u>360</u>	<u>363</u>	<u>Sand, med</u>		☒
RECEIVED					
RECEIVED					
OCT 06 2006 JUN 20 2006					
IDWR/North IDWR/North					
RECEIVED					
MAY 25 2006					
AUG 04 2006 IDWR/North					
IDWR/North					
Completed Depth <u>360'</u> (Measurable)					
Date: Started <u>12-15-05</u> Completed <u>1-25-06</u>					

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 CARL FERGUSON & SONS Firm No. 168

Principal Driller Steve Fergus Date 1-25-06

Driller or Operator II _____ Date _____

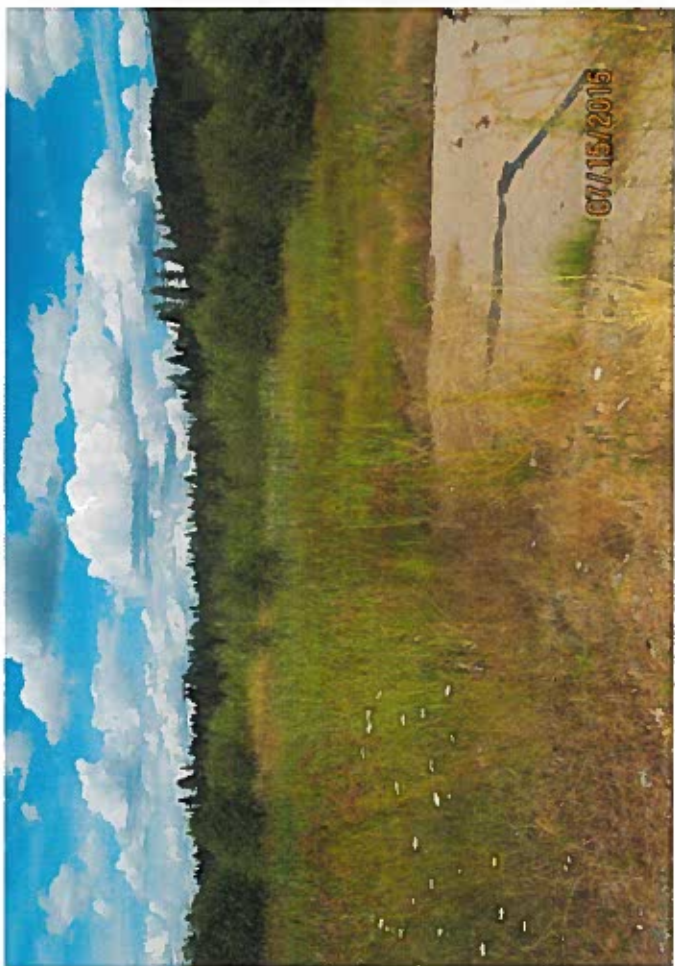
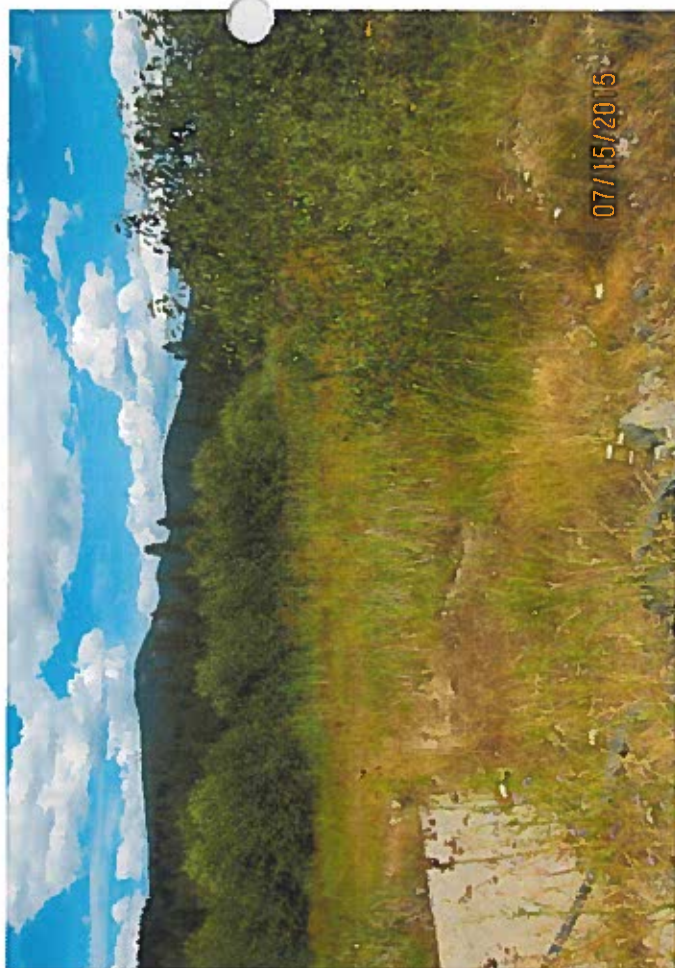
Operator I _____ Date _____

Principal Driller and Rig Operator Required.
 Operator I must have signature of Driller/Operator II.

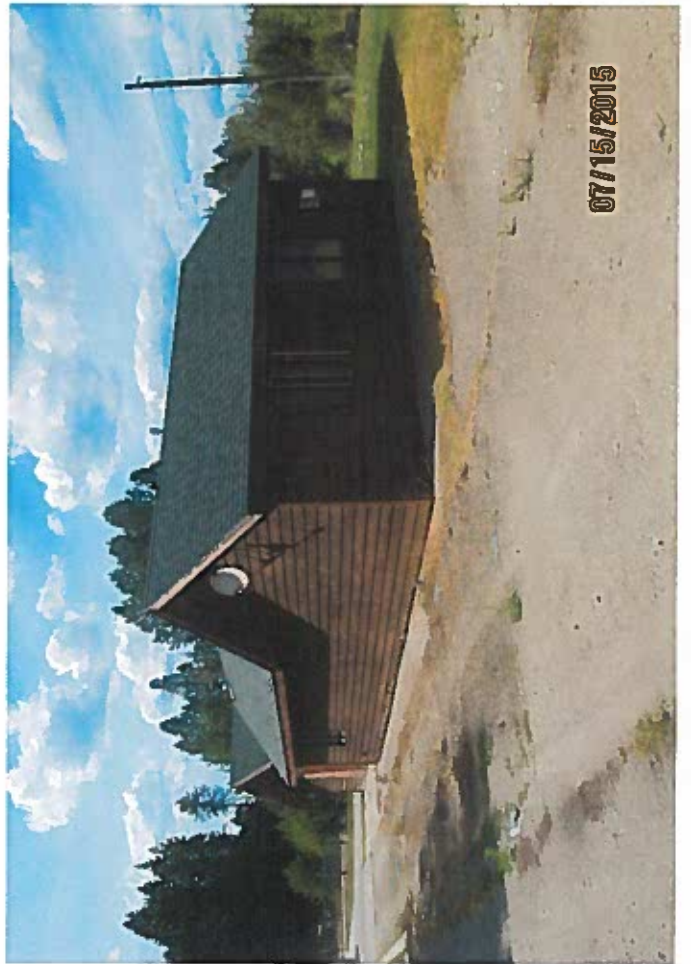
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97-7440



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