

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 85-15760

Exam Date: 10/29/2014

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: Ron or Shelle Boyle
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No: Address

3. Beneficial Use Fees have been paid: X Y N Receipt No: N030788 (need to refund)

4. **SOURCE** **TRIBUTARY**

GROUND WATER

N/A

Method of Determination: WELL LOG

Change in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: No Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A			
N/A			

Comments:

There are no overlapping water rights. 85-15757 is in the same 1/4 1/4. However, it is for the property west of this location.

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

Water Right No.	Source	Purpose of Use	Basis
N/A			
N/A			

Comments: 85-15757 is in the same 1/4 1/4. However, both properties have their own well.

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

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
GROUND WATER			SE	NE	32	33N	03W	B.M.	Nez Perce

Method of Determination: Map was provided with permit application showing location of diversion. I utilized Workflow Place of

Use and Point of Diversion Comparison, I used Arc Map to verify and clarify my results.

Change in POD? X N Amendment Required? X N

2. **PLACE OF USE:** 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	
33N	03W	32				2													2
Total Acres =																		2	

Method of Determination: Map of property submitted by the land owner identifies the POU. PLSS data through ArcMap match.

Change in POU? ___N Amendment Required? ___N

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

Indicate weir size/pipe as applicable.

___ Aerial Photo Attached (required for irrigation of 10+ acres).

___ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
0047028	Unk	1.5	Unk	Gould	1.25

*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: In-office field exam so theoretical not applicable**E. FLOW CALCULATIONS**

___ Additional Computation Sheets Attached

Measured Method:

According to administrator memo #22, domestic use for 1 home is authorized a flow rate up to 0.04 cfs

Hp Equation Worksheet (see attachment) = 0.03 cfs

Administrator memo #17 authorizes an irrigation flow rate of 0.03cfs per acre.

@ 2 acres*0.03 cfs/acre = 0.06 cfs

Theoretical Measurement = 0.06 cfs**Permit allowed = 0.04 cfs****License recommend for 0.03 cfs.****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \times 3.0 = 6.0 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \times 214 \times 1.9835 = 17 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.0 \text{ af}$$

2. Volume Calculations for Other Uses:

Theoretical for stockwater use is 0.4 af per table 6 of the Field Examiner's Handbook.

12 gpd x 1 horse x 365 = 4380 gal annum or 0.1 af

G. PURPOSE OF USE

Irrigation X Y N # Stock 1 Domestic # of Homes 1

Other: 1 shop with bathroom

Change in Purpose of Use? Y X N

Method of Determination: Information in the water right file are consistent with aerial photography of the property.

Reply to letter requesting information on Irrigated POU

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

Permit 85-15760 authorized the use of 0.04 cfs from a well for irrigation of 2 acres and 0.04 cfs for domestic for 1 home and for 0.02 cfs for stockwater use. This is based on the information provided in the water right file, this qualifies for an in office field exam.

Have conditions of permit approval been met? x Yes No

I. 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	0.03 CFS	6.0 AF
Domestic	01/01 to 12/31	0.03 CFS	0.6 AF
Stockwater	04/01 to 10/31	0.02 CFS	0.1 AF
<u>Totals:</u>		0.03 CFS	6.7 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

Other: < >

J. AUTHENTICATION

Field Examiner's Name Chay Woot Date 10/29/2014

Reviewer Date

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 85-15760
Reviewer: Clay Webster
Date of Review: 10/14/2014

P/D No.:	Well #1	Well #2	Well #1 Full Drawdown
PUMP HORSEPOWER	1.5	1.5	1.5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	264	264	264
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.03	0.02	0.02
	12	11	10
			10.95

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
No Friction

Examiners Notes:

RECEIVED

OCT 22 2014

DEPARTMENT OF
WATER RESOURCES



***** INVOICE *****

PAGE: 1

Uhlenkott Pump Service, Inc.
431 Denver Rd
Grangeville, ID 83530

INVOICE NUMBER: 0023666-IN
INVOICE DATE: 06/18/07

(208) 746-4555

RECEIVED

OCT 22 2014

DEPARTMENT OF
WATER RESOURCES

Customer # : 00-7461802

SOLD TO:
BOYLE, Ron
336 W. Reservoir Dr.
Lewiston ID 83501

CUSTOMER P.O.

TERMS CASH ON RECEIPT

Qty	Unit	Description	PRICE	AMOUNT
5/24/07 - install pump and pitless in well				
1	EACH	Pump, Goulds 10SB15 1.5 hp Bruiser		800.28
325	FEET	Pipe, Poly 200psi 1"	.78	253.50
335	EACH	Wire, 12/4 PVC flat yellow	.83	278.05
1	EACH	Adapter, Pitless HD, 1"	44.25	44.25
1	EACH	Valve, DI Check 1"	16.50	16.50
1	EACH	Hydrant, Baker 3' Bury	67.50	67.50
		Miscellaneous pump matls		127.50
		Installation		231.00
		Electrical permit		44.00
1	EACH	Subsurance, 5-year 1/3-1.5hp	50.00	50.00

pd
6-25-07
OK #
3071

Thanks, Ron; hope it
is working well for you

Net Invoice: 1,912.58
Less Discount: .00
Freight: .00
Sales Tax: 109.30

INVOICE TOTAL: 2,021.88

Thank you for your business.