

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

A. GENERAL INFORMATIONPermit No: 75-14785

Exam Date: 03/03/15

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)?
- X
- Y
-
- N

- a. **Irrigation of 5 acres or less**
 b. Storage of up to 14.6 AF for stockwater purposes only
 c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 d. Other < >

2. Current Owner: Name: Dickinson

Owner of Record Correct? X Y NAddress of Record Correct? X Y N

If No: Address

3. Beneficial Use Fees have been paid:
- X
- Y
-
- N Receipt No: C099979

- 4.
- SOURCE**
- TRIBUTARY**

Groundwater

Method of Determination: Information provided by permit holder

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

1. Other water rights with the same place of use:
- X
- NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: 75-10843 is for Lots 4a & 4b, Lamping Sub. south of POU.

2. Other water rights with the same point of diversion:
- X
- NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: 75-10843 is for Lots 4a & 4b, Lamping Sub. south of POD.

C. DIVERSION AND DELIVERY SYSTEM

- 1.
- LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Groundwater	5		NW	SE	20	17N	21E	B.M.	Lemhi
								B.M.	

Method of Determination: GPS provided by permit holder

Change in POD? Y X N Amendment Required? Y 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	
17N	21E	20																	
		Lot #																	
Total Acres =																			

Method of Determination: Taxlot acres – 2.6 acres RP00115000001A riverside Acres Lot 1A.

Change in POU? Y X N Amendment Required? Y X 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

*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: $\leq$ _____ $>$

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. 1.8 acres(0.03 cfs) = 0.054 cfs

See theoretical pump calc. Sheet. 2 HP pump per application.

Measurement = 0.05 cfs

Permit allowed = 0.06 cfs

License recommend for 0.05 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.8 \times 3.5 = 6.3$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \times 214 \times 1.9835 = 21.2$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.3$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation ☐X ☐Y ☐N # Stock _____ Domestic # of Homes _____

Other: $<$ $>$

Change in Purpose of Use? ☐Y ☐N

Method of Determination: GIS Imagery

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

- In Wild and Scenic Watershed: Salmon River Excluding Middle Fork

Season of Use: 04/01-10/31 (214 days)

Headgate: 3.5

Cons. Use: 2.5

Water District None

Conditions

- Upon specific notification by the Department, the right holder shall install a lockable device of a type acceptable to the Department in a manner that will provide suitable control of the diversion.
- Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
 - o Left on license as well is hand dug and no information in file regarding compliance.

Per information in the file, this is a shallow groundwater well, hand dug. Not a diversion from the river. Permit issued for 0.06 per email communication. See Memo from P. Kelly 10/21/14.

Note: Either imagery rectification off a bit or taxlots not quite built as platted as imagery shows parcel built slightly south of taxlot and QQ representation.

Have conditions of permit approval been met? ☒ 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	0.05 CFS	6.3 AF
<u>Totals:</u>		0.05 CFS	6.3 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

Other: < >

J. AUTHENTICATION

Field Examiner's Name Daniel L. Z... Date 03/07/15

Reviewer Daniel A. Nolan Date 3-4-15

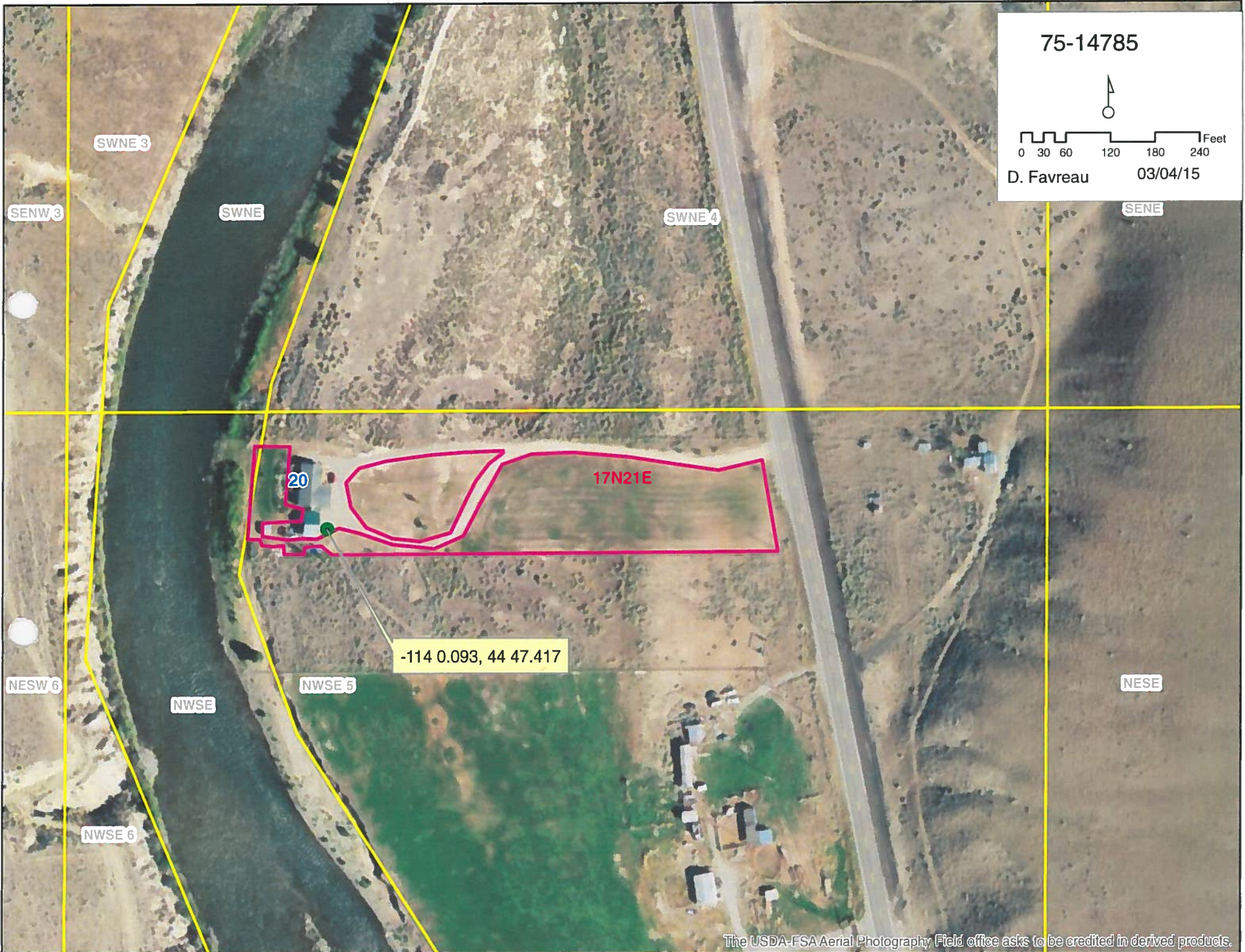
75-14785



0 30 60 120 180 240 Feet

D. Favreau

03/04/15



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 75-14785
 Reviewer: D. Favreau
 Date of Review: 3/4/2015

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	2	2	2
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	50	50	50
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.09 39	0.07 33	0.07 29
			0.08 33.85

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:

The horsepower as indicated on appliation. The pressure was estimated by using the standard for pressure tank turn on and shut off of 40 to 60 psi. The lift was estimated using the maximum deliniation between the topo map's elevation lines along the property plus the depth of well.

