

A. GENERAL INFORMATION

Exam Date: 12/16/13

- And

2. Accompanied by:

Relationship to Permit Holder:

- [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>
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*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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2. Measurements:

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Theoretical pump flow rate (using 0.75 HP, 70% efficiency, 120 feet of lift, and 20 psi):
 $Q = (8.8 \times 0.75 \times 0.7) / (120 + (20 \times 2.31)) = 0.03 \text{ cfs}$

The diversion rate to be licensed under this right will be limited to 0.03 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Standard in-house domestic use = 0.6 AF

Standard exterior use = 0.6 AF

Total = 1.2 AF

G. NARRATIVE/REMARKS/COMMENTS

This permit was in-office field examined on 12/16/13 by myself, Craig Tesch. This permit authorizes the diversion of ground water to be used for domestic purposes. Ground water is supplied by an existing groundwater well west of Orofino, Idaho.

Water is used for domestic purposes including standard indoor use for one household. The well is also used to irrigate a small grass/flower area and small garden. The well is located approximately 100 feet north of the trailer. Per owner correspondence, the well is 120 feet deep, and has a 0.75 HP submersible pump in it. Theoretical pump flow rate was calculated using 0.75 HP, 70% efficiency, 120 feet of lift, and 20 psi (standard domestic without psi gauge) resulting in a discharge rate of 0.03 cfs. Pump discharge is less than the requested diversion rate of 0.04 cfs.

The diversion rate to be licensed under this right will be limited to 0.03 cfs. The standard diversion volume is 0.6 AF each for internal and external domestic use, for a combined maximum volume of 1.2 AF. No overlapping water rights exist on the place of use.

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>
DOMESTIC	01/01 to 12/31	0.030 CFS	1.20 AF
<u>Totals:</u>		0.030 CFS	1.20 AF

2. Recommended Amendments

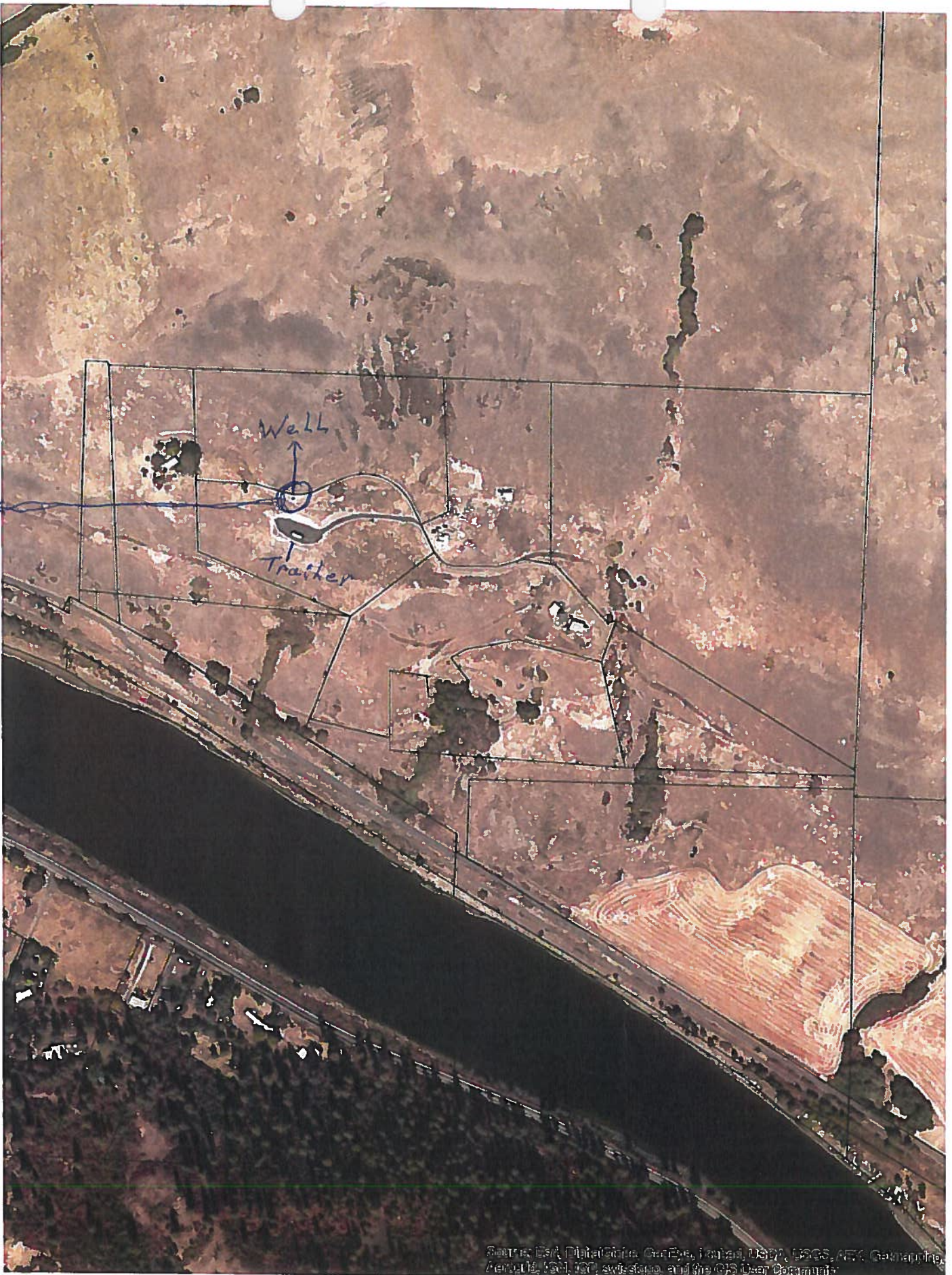
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

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

I. AUTHENTICATION

Field Examiner's Name Craig Tesch Date 12/31/13
 Reviewer David A. Miller Date 12-31

left



Well



NOV 22 2013

DEPARTMENT OF
WATER RESOURCES

11/18/2013

This is concerning the
well on Part of Government
Lot 2 Section 29 Township 37
North Range 2 West B.M.
consisting of 5.7 Ac.

Well - approx - 120'
Horsepower is $\frac{3}{4}$ hp.
Pump is Submersible with
pithless adapter
Pressure Tank, 80 Gal
Pumping capacity - 6-8 Gal
per minute
Pumps Starter and Braker
Box is on the Pole next To
Well.

The irrigation that is associated
with this home site, consists of
Tree irrigation
irrigation of Flower beds
irrigation of Grass area
around Flag Pole approx - 20 X 30

irrigation Small Garden
approx 10x10

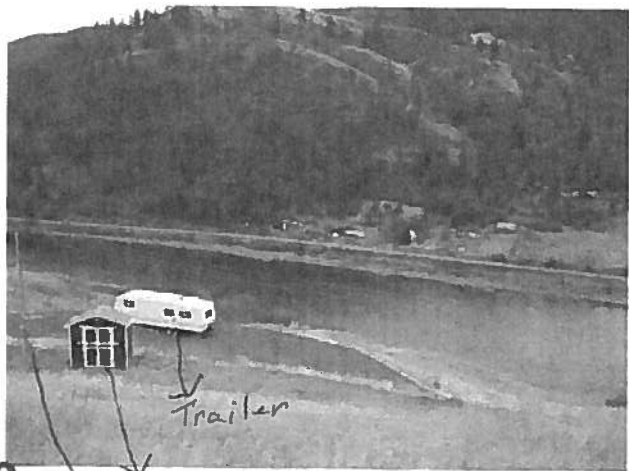
Constant water Feed to
trailer For House usage
and miscellaneous use.

David L Serba
13333 Mulhan Rd
Missoula Mont 59808

P.S.

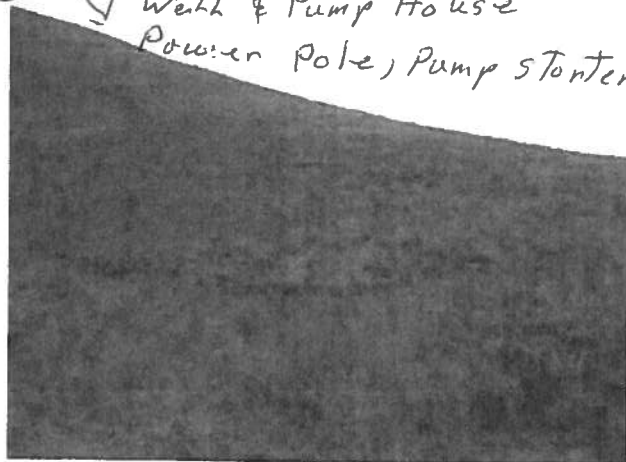
The property is occupied
approx - 35 To 40 - percent
of The Time.

David L Serba



9

Well & Pump House
Power Pole, Pump Station



PI

Br
CI

A

Koller

*COPY OF
map FROM
permit
file.*

T37N R2W Section 29



Place of Use



Point of Diversion



SCANNED

[illegible]

Water Right	86-11966	Y	SERBA, DAVID; GROUND SERBA, SUSEN WATER	POU	X	0
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