

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 91-07841

Exam Date: 8/12/2016

1. Current Owner:

MARY M NEMETH 2800 ST JOE RIVER RD ST MARIES ID 83861-9136 (208) 245-2639

And/Or

PETER NEMETH 2800 ST JOE RIVER RD ST MARIES ID 83861-9136 (208) 245-2639

2. Accompanied by: Peter Nemeth

3. SOURCE:

GROUND WATER

TRIBUTARY:

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 91-7879

2. Other water rights with the same point-of-diversion: 91-7879 and 91-7088

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

GROUND WATER NE¼NE¼ Sec. 14, Twp 46N, Rge 02W, B.M. BENEWAH County

Method of Determination: Maps and GPS. POD location at 47° 20.426, 116° 32.694. Well 91-79-N-10 (A0020012)

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	
46N	02W	14	X																

PLACE OF 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	
46N	02W	14	0.3																.3

Total Acres: 0.3

Method of Determination: Google Earth and Arc map.

3.

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

X

Indicate weir size/pipe as applicable.

X

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

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
91-79-N-10	UNKNOWN				

*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
5 GALLON BUCKET						

2. Measurements: 5 GALLON BUCKET TEST.

5 GALLON BUCKET FILLED IN 25 SECONDS.

5 GAL/ 25 SEC = 0.2

0.2 X 60 MINUTES = 12 GPM

E. FLOW CALCULATIONS

Measured Method: FIELD EXAMINER UNABLE TO FIND ANY X Additional Computation Sheets Attached
 INFORMATION FROM PUMP. THEORETICAL PUMPING EQUATION ATTACHED AS A POSSIBILITY OF PUMP SIZE.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.3 \text{ AC} \times 3.0 \text{ AF} = 0.9 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.01 \times 231 \times 1.9835 = 4.6 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 0.9 \text{ AF}$$

2. Volume Calculations for Other Uses: DOMESTIC USE FOR 7 RV SPOTS

AVERAGE NUMBER OF RESIDENTS PER RV IS 2.

AVERAGE USAGE OF RV WITH HOOK UP IS 50 GPD PER PERSON.

$$100 \text{ GPD} \times 7 \text{ RV} = 700 \text{ GPD}$$

$$700 \text{ GPD} \times 365 \text{ DAYS} = 255,500 \text{ GPY} / 325,850 \text{ GAL/AF} = 0.8 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant Mr. Nemeth showed a well with unknown pump size serving 7 RV sites with some irrigation as well. 5 gallon bucket test was performed and filled in 12 seconds which is equal to 0.03 cfs. Irrigation occurring under this right was measured out to be 0.3 acres with an annual volume of 0.9 acre feet. Irrigation was occurring in the same area as decreed water right 91-7879 which was for domestic and stockwater use up to 13,000 gallons per day. That right for domestic is for up to ½ acre of irrigation in same area as the 0.3 acres on this right. The overlap will limit both rights to up to ½ acre of irrigation between them.

The 7 RV spots had water available to them as well as septic hookups. The average number of residents per trailer was 2. Water usage table say's daily use per RV per resident with septic hookup is 50 gallons per day. The total annual usage with 7 RV spots with 2 people per RV is 255,000 gallons per year or 0.8 acre feet.

The well serves 2 additional water rights 91-7088 and 91-7879. From the well the water is distributed by buried pipes throughout property. Water usage for RV spots was mainly through frost free hydrants and some hook ups below surface of ground. Irrigation was done with sprinklers from frost free hydrants.

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	0.03 CFS	0.8 AF
IRRIGATION	03/15 to 10/31	0.01 CFS	0.9 AF
	<u>Totals:</u>	0.030 CFS	1.70 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

I. AUTHENTICATIONField Examiner's Name Aiden Furschill Date 3-17-2017Reviewer Morgan Case Date 4/10/2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
91-7841

IRRIGATION / SYSTEM DIAGRAM



0 0.02 0.04 0.08 Miles

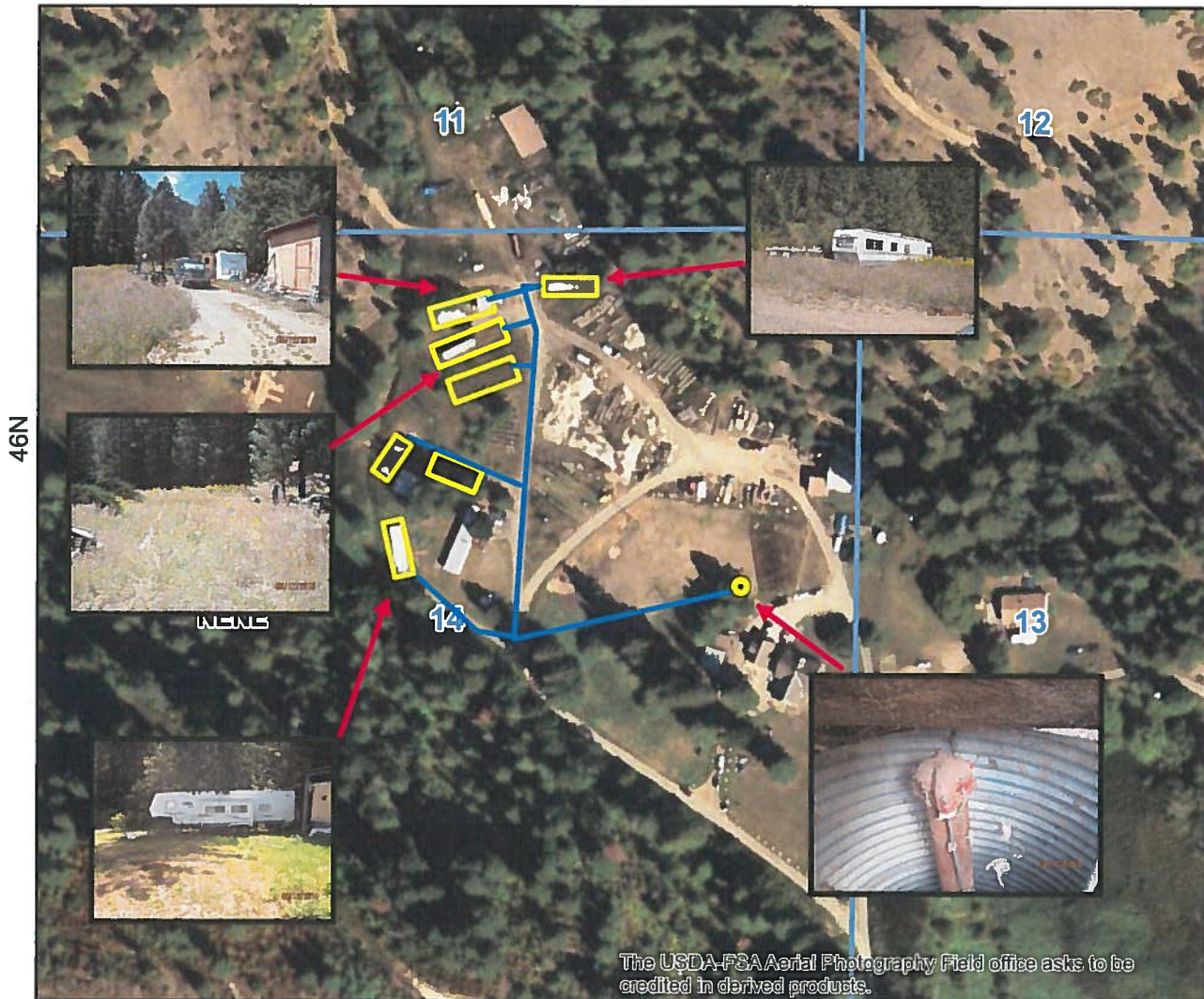
- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections



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DOMESTIC / SYSTEM DIAGRAM

02W



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

0 0.025 0.05 0.1 Miles





PUMP EQUATIONS WATER RIGHT						
				No.	91-7841	
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/ H	1	240.952 4	0.8	160	35
Q =		0.029 cfs	13.1 gpm			

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

Livestock (per animal):

Cattle (range)	12
Cattle (dairy)	35
Goat	2
Hog	4
Horse	12
Mule	12
Sheep	2
Chickens (per 100)	5-10
Turkeys (per 100)	10-18

Motels:

With bath, toilet & kitchen facilities (per bed)	50
With bed & toilet (per bed)	40

Parks:

Overnight with flush toilets (per camper)	25
Trailers with individual bath units (per camper)	50

Picnic:

With bathhouses, showers & flush toilets (per picnicker)	20
With toilet facilities only (per picnicker)	10

Restaurants:

With toilet facilities (per patron)	7-10
Without toilet facilities (per patron)	3
With bars & cocktail lounge (additional per patron)	2

Schools:

Boarding (per pupil)	75-100
Day with cafeteria, gyms & showers (per pupil)	25
Day with cafeteria, no gyms or showers (per pupil)	20
Day without cafeteria, gym or showers (per pupil)	15

Service stations (per vehicle)	10
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Stores (per toilet room)	400
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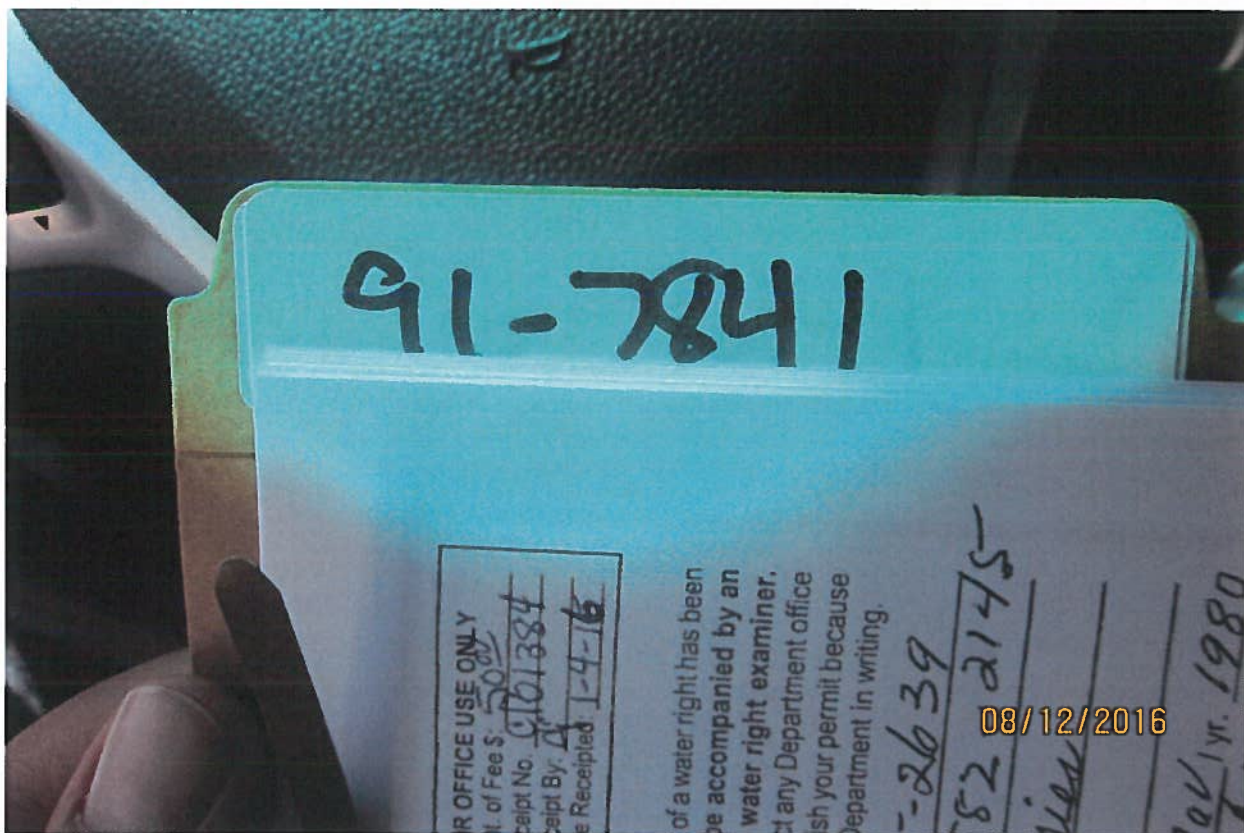
Swimming pools (per swimmer)	10
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Theaters:

Drive-in (per car space)	5
Movie (per auditorium seat)	5

Workers:

Construction (per person/shift)	50
Day (per person/shift)	15



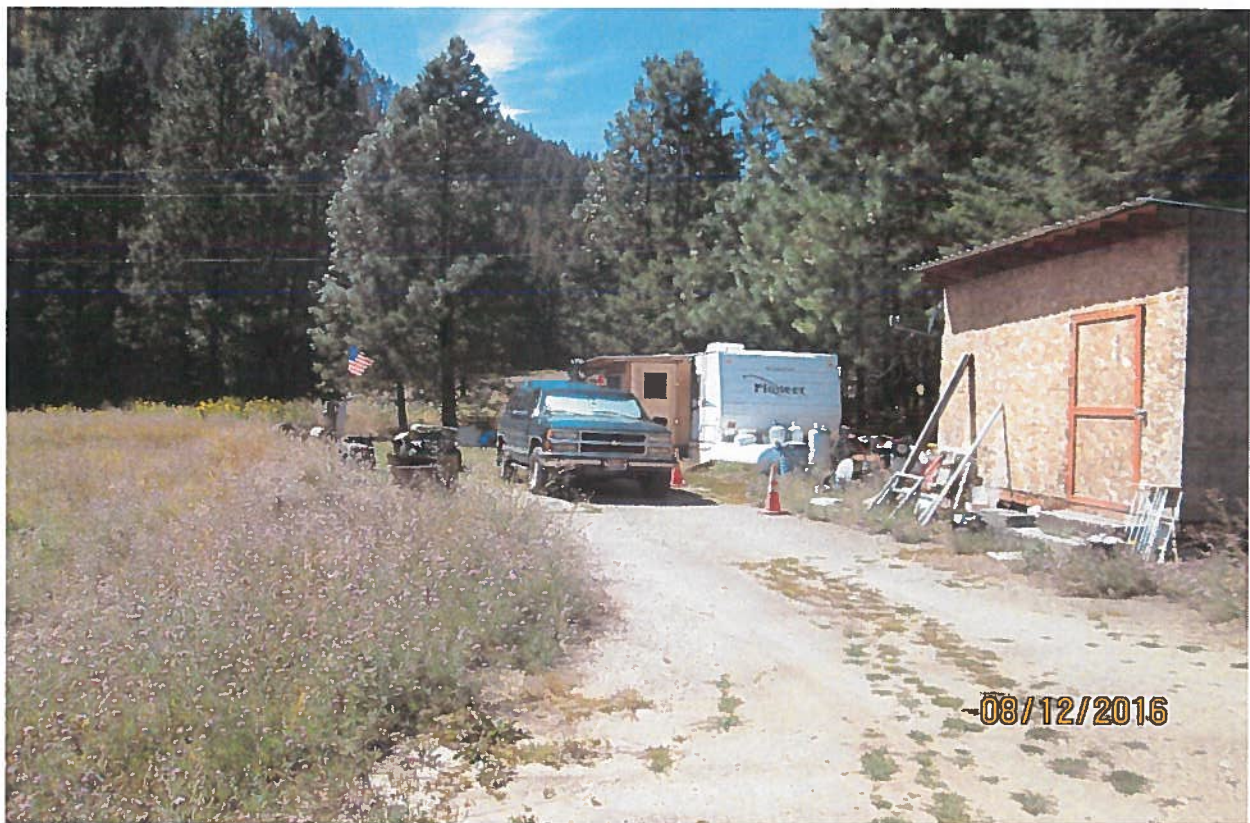
Well 91-79-N-10, given IDWR tag A0020012.



Frost free hydrant coming from well. 5 gallon bucket test performed showing 12 gpm.



RV spot 1.



RV spot 2.



RV spot 3 and RV spot 4 to left.



Water hook up for RV spot 5.



Hook up for RV spot 6.



RV spot 7 and some irrigation.



Irrigated area.