

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-14277

Exam Date: 8/20/2012

1. Current Owner: E CATHERINE WILSON
11380 W. MISSION POINTE DRIVE
NAMPA, ID 83651
(208) 546-0065
2. Accompanied by: Nancy Wilson
Phone No: (208) 249-9682
Address:
Relationship to Permit Holder: Daughter

- | 3. <u>SOURCE</u> | <u>TRIBUTARY</u> |
|------------------|------------------|
| UNNAMED STREAM | GOODRICH CREEK |

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:

UNNAMED STREAM NE1/4NE1/4 Sec. 30, Twp 16N, Rge 02W, B.M.
ADAMS County

Method of Determination: Arc Map (Aerial Photo).

2.

PLACE OF USE: STOCKWATER STORAGE

[illegible]

PLACE OF USE: FIRE PROTECTION STORAGE

[illegible]

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
16N	02W	30	X																

DIVERSION TO STORAGE same as FIRE PROTECTION

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>
N/A	N/A			N/A	N/A

*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>
N/A						

2. Measurements: No field measurement. Water flow in the unnamed stream (Wilson Creek) was too low to get an accurate flow measurement from the 10" CMP culvert.

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method: (Continuity Equation – Pipe Flow)

$$Q = VA = 2 \text{ ft/sec} \times 0.02 \text{ ft}^2 = 0.04 \text{ cfs}$$

$$V = 2 \text{ ft/sec (Assumed)}$$

$$\text{Water Depth} = 1" (0.083') \text{—(Assumed)}$$

$$A(\text{flow}) = 0.02 \text{ ft}^2$$

$$\text{Pipe Diameter} = 10"$$

At a minimum water depth in the 10" CMP culvert pipe of 1", and assuming a velocity of 2 ft/sec, the discharge rate for the 10" culvert is 0.04 cfs, which is greater than the permit diversion rate of 0.02 cfs. Although the capacity of the 10" CMP culvert is much greater than the permit rate of 0.02 cfs, it is the responsibility of the right holder to operate the 10" slide gate to control the discharge rate in compliance with the permitted rate of 0.02 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: (Stock Water & Fire Protection Storage Pond)

Pond maximum depth – 6'

Pond Surface Area – 0.30 acre

$$V(\text{Storage}) = A \times D = 0.30 \text{ acre} \times 6 \text{ feet} = 1.80 \text{ AF} > 1.70 \text{ AF (Permit)}$$

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

An unnamed stream, known locally as Wilson Creek, meanders through the right holder's property. A 10" CMP culvert was installed across an access road which parallels the unnamed stream. The culvert pipe diverts water from the unnamed stream to the stock water and fire protection storage pond. A 10" slide gate has been installed on the upstream end of the 10" CMP culvert to regulate the diversion rate to the storage pond. A narrow excavated channel conveys the water to the storage pond.

PLACE OF USE:

A 0.30 acre storage pond provides water for 40 head of cattle and for fire suppression. Due to the destruction of the access road to the property by a Goodrich Creek flood event in 2009, the right holder has been unable to transport the cattle to the property. Road repairs are scheduled to be completed this year.

conditions of permit approval been met? ☒ Yes ☐ No

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.02	&/or	1.7
Beneficial Use Limit	0.02	&/or	N/A
System Measurement	0.04(Calculated)	&/or	N/A
Proof Fee Amount	0.20	&/or	20
Recommended Amount	0.02	&/or	1.7

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER STORAGE	01/01 to 12/31		1.70 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		1.70 AF
FIRE PROTECTION	01/01 to 12/31	0.020 CFS	
DIVERSION TO STORAGE	01/01 to 12/31	0.020 CFS	
<u>Totals:</u>		0.020 CFS	1.70 AFA

2. Recommended Amendments

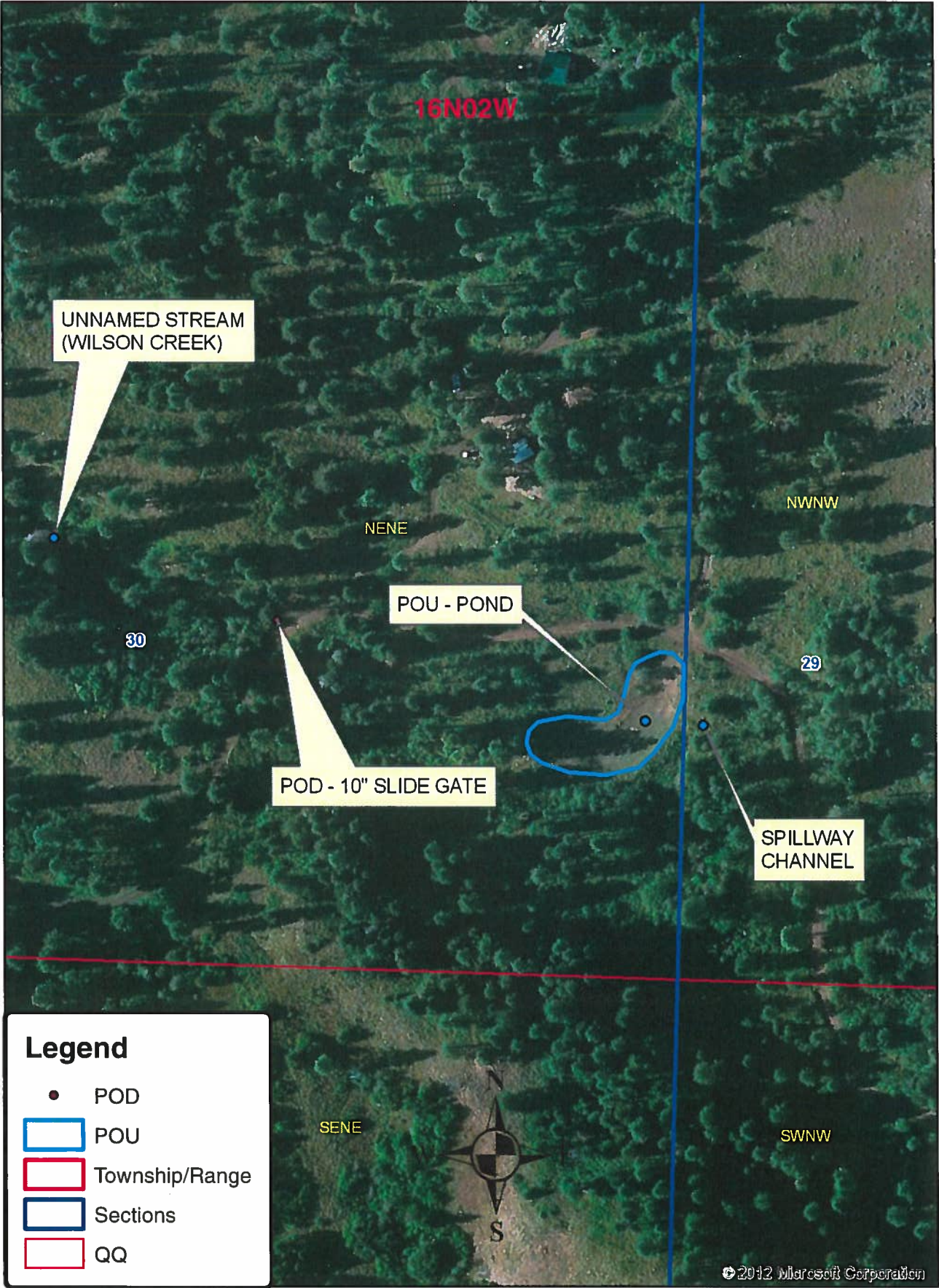
___Change P.D. as reflected above ___Add P.D. as reflected above ☒None

___Change P.U. as reflected above ___Add P.U. as reflected above ___Other

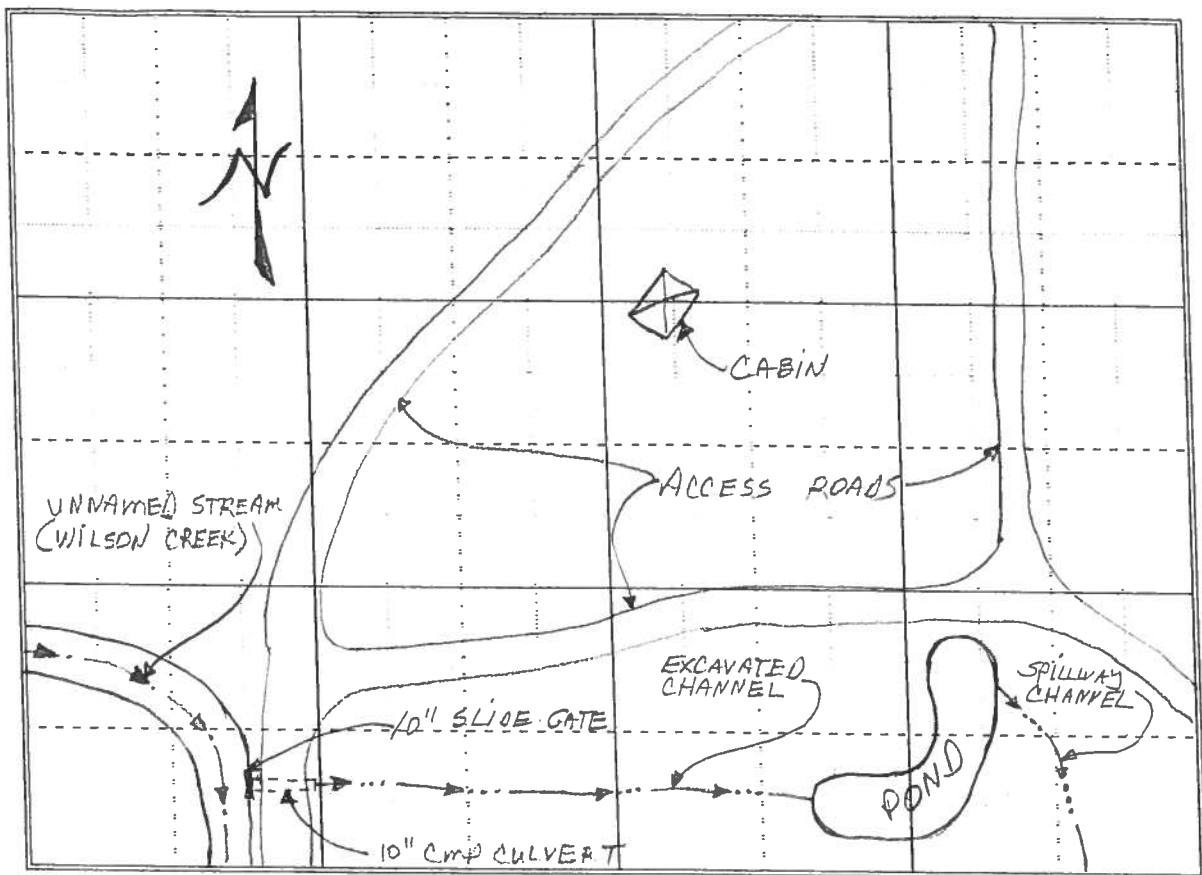
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 11/28/12

Reviewer _____ Date _____



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

FIELD EXAM PHOTOS

Water Right Permit: 67-14277

Field Exam Date: 8-20-12

PLS: NE1/4, NE1/4 Section 30, T.16N, R.02W.

Field Examiner: RC



Point of Diversion: View southeasterly of 10" slide gate on 10" CMP culvert. The unnamed stream is known locally as Wilson Creek.



Place of Use: View southeasterly of stock water and fire protection storage pond. The dam height is approximately 7'. The excavated water conveyance channel from the 10" headgate on the roadway culvert is shown in foreground.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 9, 2012

Clayton A. & E. Catherine Wilson
P.O. Box 117
Jordan Valley, OR 97910

RE: Scheduling Field Exam for Water Right Permit No. 67-14277

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of August 20, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.02 cfs from an Unnamed Stream (Wilson Creek) for stock water for 40 head of cattle, 1.70 AF of stock water and fire protection storage, and fire protection.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 17, 2012, to conduct the exam during the week of August 20, 2012.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.