

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

Permit No: 79-7249

Exam Date: 9/19/2007

1. Current Owner: JANE CHAVEZ  
PO BOX 304  
LUCILE ID 83542-0304  
(208)628-3918
2. Accompanied by: owner  
Phone No: same as above  
Address: same as above  
Relationship to Permit Holder: owner

3. SOURCE TRIBUTARY  
SPRING SINKS

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 79-7183
2. Other water rights with the same point of diversion: 79-7183

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

|              |                 |          |          |               |
|--------------|-----------------|----------|----------|---------------|
| SPRING       | SE1/4NW1/4SE1/4 | Sec. 36, | Twp 26N, | Rge 01W, B.M. |
| IDAHO County |                 |          |          |               |
| SPRING       | SE1/4NW1/4SE1/4 | Sec. 36, | Twp 26N, | Rge 01W, B.M. |
| IDAHO County |                 |          |          |               |

Method of determination: Visual Inspection and GIS mapping.

2.

**PLACE OF USE:** DOMESTIC

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    |        |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | Totals |
| 26N | 01W | 36  |    |    |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |        |

Method of determination: Visual Inspection and GIS mapping.

**3. Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/pipe i.d. as applicable.

**SEE ATTACHED SHEET.**

YES Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

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

YES 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 |
|---------------------------------------|------------|-----|------------------|-----------|-----------------------------------|
| POINT OF DIVERSION                    | No pump    | n/a | n/a              | n/a       | 1 inch black plastic pipe.        |
|                                       |            |     |                  |           |                                   |

*\*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 |
|-----------------------|--------------|------|-----------|------------|-------|-------------|
| Bucket and Stop Watch | 5 gal Bucket | n/a  | n/a       | n/a        | 5 gal | n/a         |
|                       |              |      |           |            |       |             |

**2. Measurements:**

A time fill measurement was made using a bucket and a stopwatch.

**E. FLOW CALCULATIONS**  X   Additional Computation Sheets Attached

Measured Method:

See Attached sheet. Allow 0.02 cfs and 1.2 afa.

**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:

See Attached sheet. Allow 0.02 cfs and 1.2 afa.

**G. NARRATIVE/REMARKS/COMMENTS**

The water for this permit is diverted from a single spring at two separate points. The first point of diversion is located at the top or head of the spring. The water is collected in a perforated pipe and transported to a collection cistern/plastic garbage can. A 1-inch plastic pipe is used to divert the water away from the spring. This pipeline travels underground in a southwesterly direction until it meets the pipeline from the other diversion. The other diversion is a 5 gallon bucket with a screen that captures the remaining water flowing in the spring. The water is taken from this diversion goes through the same 1-inch piping in a southeasterly direction, where it meets the pipeline from the other diversion. The two diversions are approximately 25 to 50 feet apart. The pipeline continues to travel southeast to another plastic garbage can used as a pressure dump or relay station. The water from this point travels southwest, downhill, to a spigot for the lawn and on into the home.

There is approximately ½ acre of irrigation in lawn and garden areas around the home. The home is basically a vacation home type structure. However, it is setup to live in year round.

The only significant overlapping water rights are those of William C. Buxton, water right permit number 79-7183. Apparently Mr. Buxton filed on this spring for his own cabin further uphill from the spring location. However, there is not electricity in this area, and the spring barely provides adequate water for this permit. Mr. Buxton did not develop his water right, and the right owned by Mr. Buxton has been recommended for cancellation.

Also please see complaint memo Dated 9/19/2007.

Have conditions of permit approval been met?   X   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       | 0.020 CFS             | 1.20 AF              |
|                       | <u>Totals:</u>       | 0.020 CFS             | 1.20 AF              |

**2. Recommended Amendments**

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

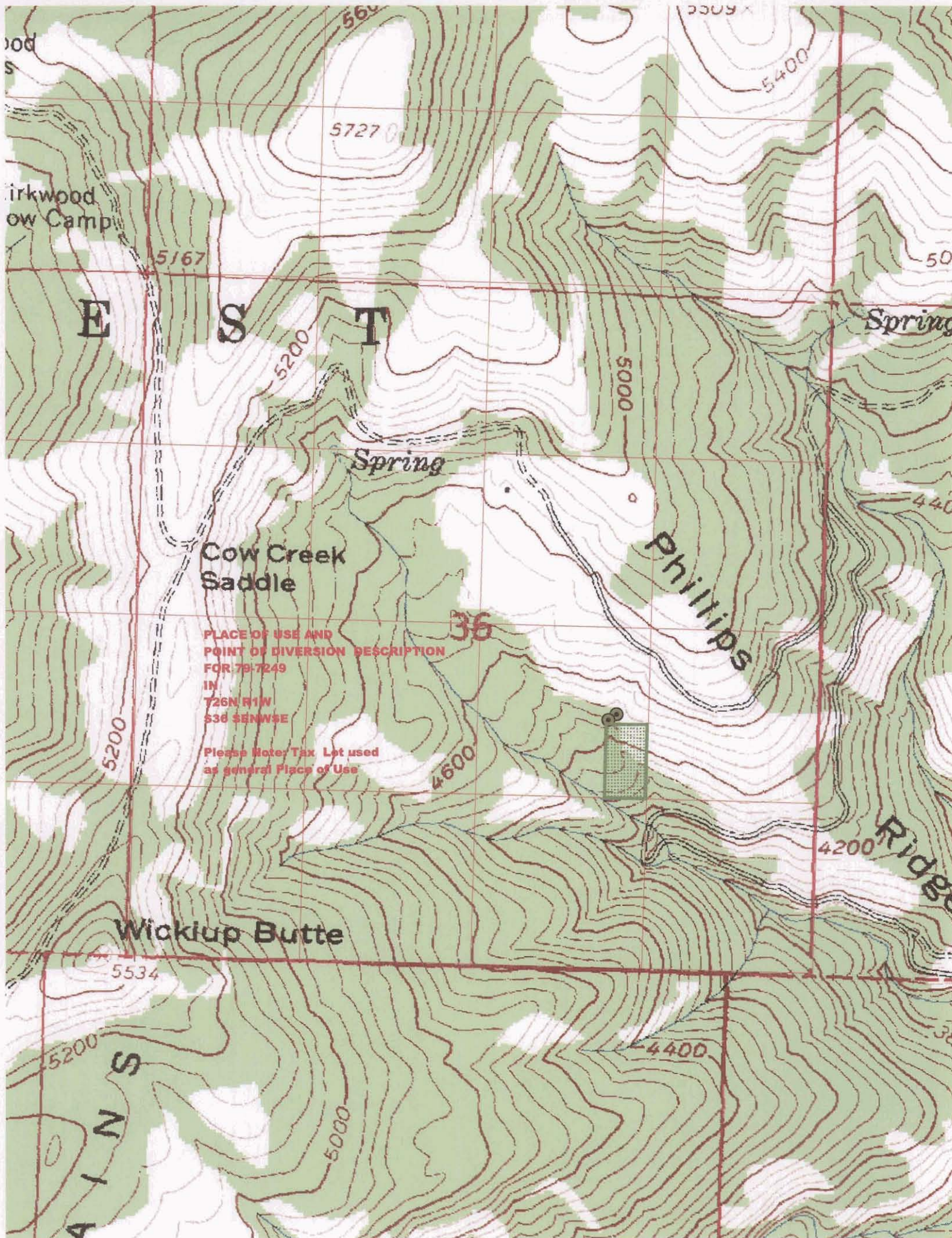
☐ Change P.U. as reflected above    ☐ Add P.U. as reflected above    ☐ Other

**I. AUTHENTICATION**

DANIEL A. NELSON – SENIOR AGENT

Field Examiner's Name Daniel A. Nelson Date 9-24-07.

Reviewer \_\_\_\_\_ Date \_\_\_\_\_ SEAL



Wood  
Camp

E S T

Spring

Spring

Cow Creek  
Saddle

Phillips

PLACE OF USE AND  
POINT OF DIVERSION DESCRIPTION  
FOR 79-7249  
IN  
T26N R1W  
S36 SE1/4SE

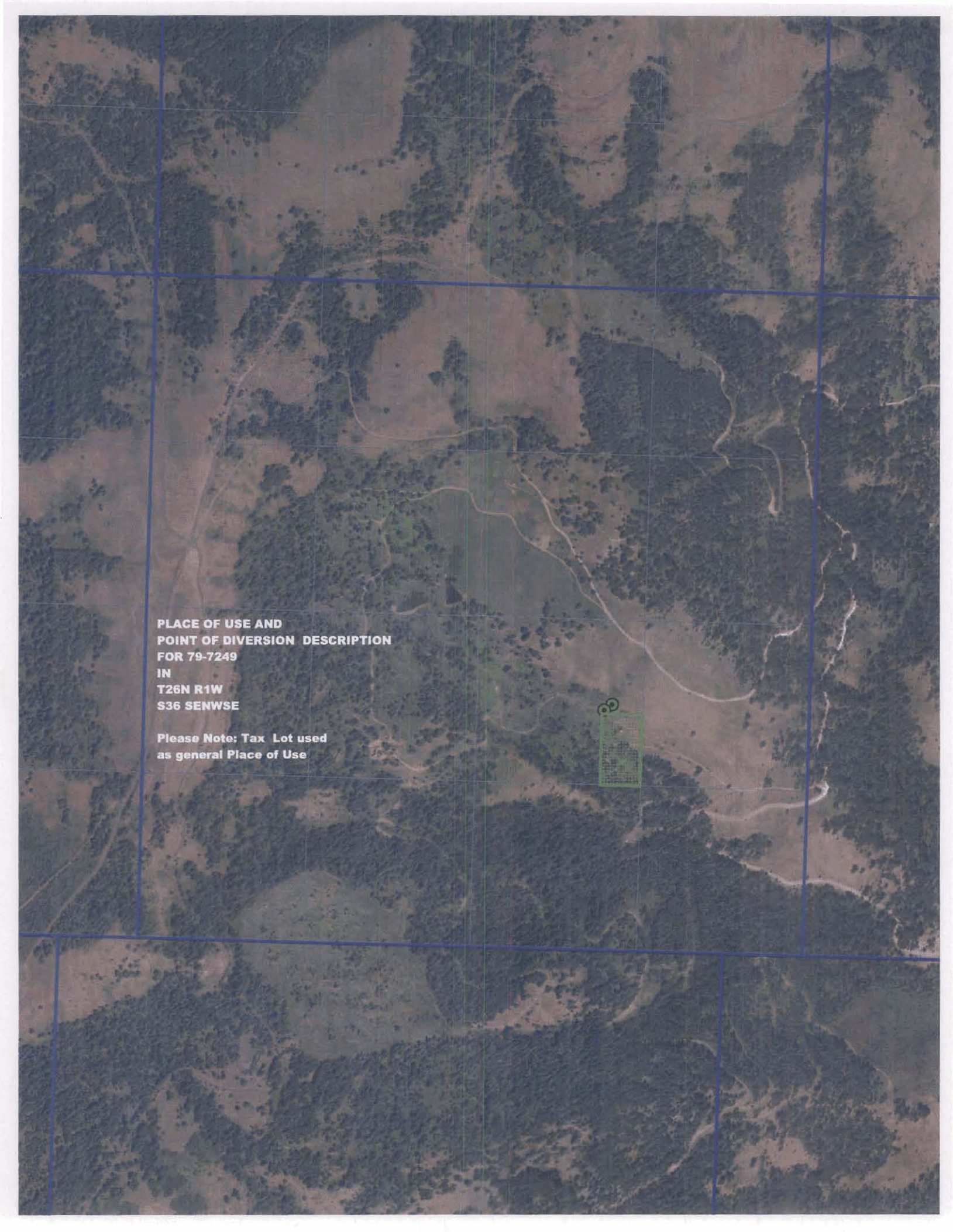
Please Note: Tax Lot used  
as general Place of Use

36

Wicklup Butte

Ridge

A I N S



**PLACE OF USE AND  
POINT OF DIVERSION DESCRIPTION  
FOR 79-7249  
IN  
T26N R1W  
S36 SENWSE**

**Please Note: Tax Lot used  
as general Place of Use**

SPRING DIVERSION

SPRING DIVERSION

**SYSTEM DIAGRAM  
FOR 79-7249  
IN  
T26N R1W  
S36 NWSE**

1 INCH BLACK PIPELINE  
MAINLY BURIED

RELAY CISTERN

YARD AREA  
APPROX. 1/2 ACRE

HOUSE

The water for this permit is diverted from the spring in two places. It is the same spring. The water is captured using buried perforated pipe and trash cans to collect the water. The water is then sent through a 1 inch black pipeline to a relay cistern (another trashcan) to relief the pressure. From the relay cistern the water travels down to the house and yard. The yard is irrigated through a hose bib in the middle of the yard.

## TIME FILL CALCULATIONS FOR WATER RIGHT 79-7249 FIELD EXAM

On 9/19/2007, I performed a field exam for water right 79-7249. The source for this right is a spring. The water is collected at the spring and run down to a home and yard. The only reasonable method of measuring this water was the time fill method. I used a 5 gallon bucket and a stopwatch to determine the flow rate on this system. I timed the fill three times and took an average to determine an average rate of flow. My calculations are as follows:

Time #1 – 50 sec

Time #2 – 48 sec

Time #3 – 47 sec

Average time to fill the 5 gallon bucket =

$$(50 + 48 + 47) / 3 = 48.33 \text{ seconds}$$

Flow in gpm =

$$(5 \text{ gal} / 48.33 \text{ seconds}) \times (60 \text{ seconds} / 1 \text{ minute}) = 6.2 \text{ gpm}$$

Flow in cfs =

$$6.2 / 448.8 = 0.013 \text{ cfs}$$

### CONCLUSION:

I measured this spring in the fall, and typically, these springs are flowing at their maximum capacity shortly after snow melt. Therefore, this measurement is probably a little on the low side. This area has had some disputes in the past, so I want to ensure that the capacity of the system is being covered by this right. Therefore, I am recommending that this right be licensed for 0.02 cfs. The general rule of rounding states that we round to the nearest hundredth of a cfs, which would be 0.01 cfs. However, this could hinder the owner of this water right, due to the small amount of water being measured. I feel it is in the best interest of all concerned if that in this particular case that the diversion rate be rounded up to the .02 cfs. I am recommending the standard domestic volume for a home and yard of 1.2 afa.

RECOMMENDED DIVERSION RATE = 0.02 cfs.

RECOMMENDED VOLUME = 1.2 afa

TO: CHAVEZ / BUXTON COMPLAINT

FROM: DANIEL A. NELSON *DAN*

DATE: 9/20/2007

SUBJECT: FIELD INSPECTION.

I was asked to perform a field inspection for the above mentioned complaint and perform the field exams for water rights 79-7183 – Buxton and 79-7249 – Chavez. Both of these rights were filed on the same spring, but Ms. Chavez stated that Mr. Buxton had never developed the spring. Ms. Chavez also stated that Mr. Buxton filed proof of beneficial use on her diversion and property.

I visited the property on 9/19/2007. During this visit, I discovered that Ms. Chavez was the only person diverting from this particular spring. There was no development from Mr. Buxton. I tried to contact Mr. Buxton prior to the field exam, and discovered that he had recently passed away. Therefore, I had to rely on the information found at the site and the information given to me by Ms. Chavez.

I have recommended that the permit for Ms. Chavez be licensed and the permit for Mr. Buxton be cancelled due to non-development of the spring. The licensing of these permits should resolve any disputes about this property.

Please see the field exam for 79-7249 for all pictures and photos.

COPY

**PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 9/19/2007**

**FILE NUMBER 79-7249**



The photo above left shows the diversion at the top of the spring or the northern most diversion. The photo at the above right shows the spring diversion at the bottom of the spring or the southern most diversion. The two diversion points are only about 25 to 50 feet apart.

The photo below left shows the 1- inch black plastic pipe used to deliver the water to the home and yard. The photo below right shows the spigot or pipe bib used to irrigate the yard.



PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 9/19/2007

FILE NUMBER 79-7249



The above photo shows the lawn and cabin where the water is used. The lawn is right at 1/2 acre, but not much more. There isn't much more room to irrigate anymore land.