

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-16644

Exam Date: 9/12/2011

1. Current Owner: NANCY J DRAZNIN
508 W CHESTNUT ST
GENESEE ID 83832
(208)301-0126

And

KEN E NAGY
508 W CHESTNUT ST
GENESEE ID 83832
(208)301-0126

2. Accompanied by: Ken Nagy (permit holder) and Benny Walker (IDWR)

Phone No:

Address:

Relationship to Permit Holder:

3. **SOURCE**

LIME CREEK

TRIBUTARY

WARM SPRING CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 72-7521 (from a different source)
2. Other water rights with the same point of diversion: 72-7532 (for a different use)

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

LIME CREEK

L4 NW1/4NW1/4

Sec. 1, Twp 12N, Rge 20E, B.M.

CUSTER County

Method of Determination: aerial photography and IDWR spatial data point (site tag # A0017927)

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
12N	20E	1						X											
								L 4											

Method of Determination: aerial photography

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 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 Size</u>

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

Two measurements were taken with a 5 gallon bucket and stopwatch. The average flow rate was 6.9 gpm or 0.02 cfs.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Measurement # 1

5 gallon bucket filled in 43.88 seconds

Measurement # 2

5 gallon bucket filled in 43.07 seconds

Average time to fill bucket = $(43.88 + 43.07) \div 2 = 43.475$ seconds $(5 \text{ gallons} / 43.475 \text{ seconds}) \times (60 \text{ seconds/minute}) = 6.9 \text{ gallons per minute}$ $6.9 \text{ gallons per minute} \times (1 \text{ cfs} / 448.83 \text{ gpm}) = 0.0154 \text{ cfs}$ use 0.02 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:

One house with irrigation (trees and garden area) = 1.2 afa per IDWR domestic volume standard for house with yard

G. NARRATIVE/REMARKS/COMMENTS

Permit 72-16644 was issued on March 15, 2005 for the diversion of up to 0.04 cfs from Lime Creek for domestic use for one home. Proof of Beneficial Use was filed on January 6, 2006. On September 12, 2011, Benny Walker and I conducted the licensing exam for 72-16644 accompanied by Ken Nagy, the permit holder.

The diversion system consisted of a headgate diversion on Lime Creek. Note that this diversion is the same diversion point as the point of diversion described on license 72-7532 which allows for the diversion of water from Lime Creek for wildlife use associated with a pond located on the property. A one inch diameter pipeline, with a filter, runs from the pond to the domestic place of use below. Several faucets are located along this pipeline, that feed various drip lines for irrigation of trees and a garden located on the property. The pipeline leads to a cabin, where an additional filter system is utilized so that water from the pipeline can be used for culinary uses in the cabin. Note that domestic water from a different source as described by right 72-7521 is also utilized for this property. It is recommended that the license for right 72-16644 be limited when combined with right 72-7521 to typical domestic allowances (13,000 gpd, ½ acre irrigation, etc.).

During the exam several measurements were conducted via a five gallon bucket and stopwatch from a couple of faucet locations along the pipeline from the pond. The initial measurements were yielding flows of five gallons in 47-49 seconds. Mr. Nagy, thought he could get more flow from the system so he proceeded to clean the filter on the line from the pond. After cleaning the filter, two measurements were taken and yielded flows of five gallons in just over 43 seconds. These two flow measurements were averaged, resulting in a measured diversion rate of 0.02 cfs. It is recommended that right 72-16644 be licensed for a diversion rate of 0.02 cfs and an annual volume of 1.2 afa (IDWR standard domestic allowance for a house with irrigation). As indicated previously, it is recommended that the license for right 72-16644 be limited when combined with right 72-7521 to typical domestic allowances (13,000 gpd, ½ acre irrigation, etc.).

Permit 72-16644 describes the point of diversion as being in the NENWNW of Section 1. However, The NWNW of Section 1 is actually a government lot and it appears that if a 10 acre tract designation were to be used the POD would be located within the NWNWNW of Section 1. It is recommended that license 72-16644 be issued with a POD description of Lot 4 (NWNW) Section 1 (dropping the 10 acre tract designation without a licensing amendment). Note that this would match the POD description on right 72-7532 and be more reflective of the shared, common point of diversion.

Permit 72-16644 included a non standard condition indicating that the domestic use be limited to in house use only (no irrigation) until the Wilderness Moratorium is lifted. The condition also indicates that if the Wilderness Moratorium is lifted, irrigation shall not exceed ½ acre. Since the Wilderness Moratorium has been lifted it is recommend that domestic irrigation be recognized by license 72-16644 and that this particular condition not be included as part of the license.

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	0.020 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

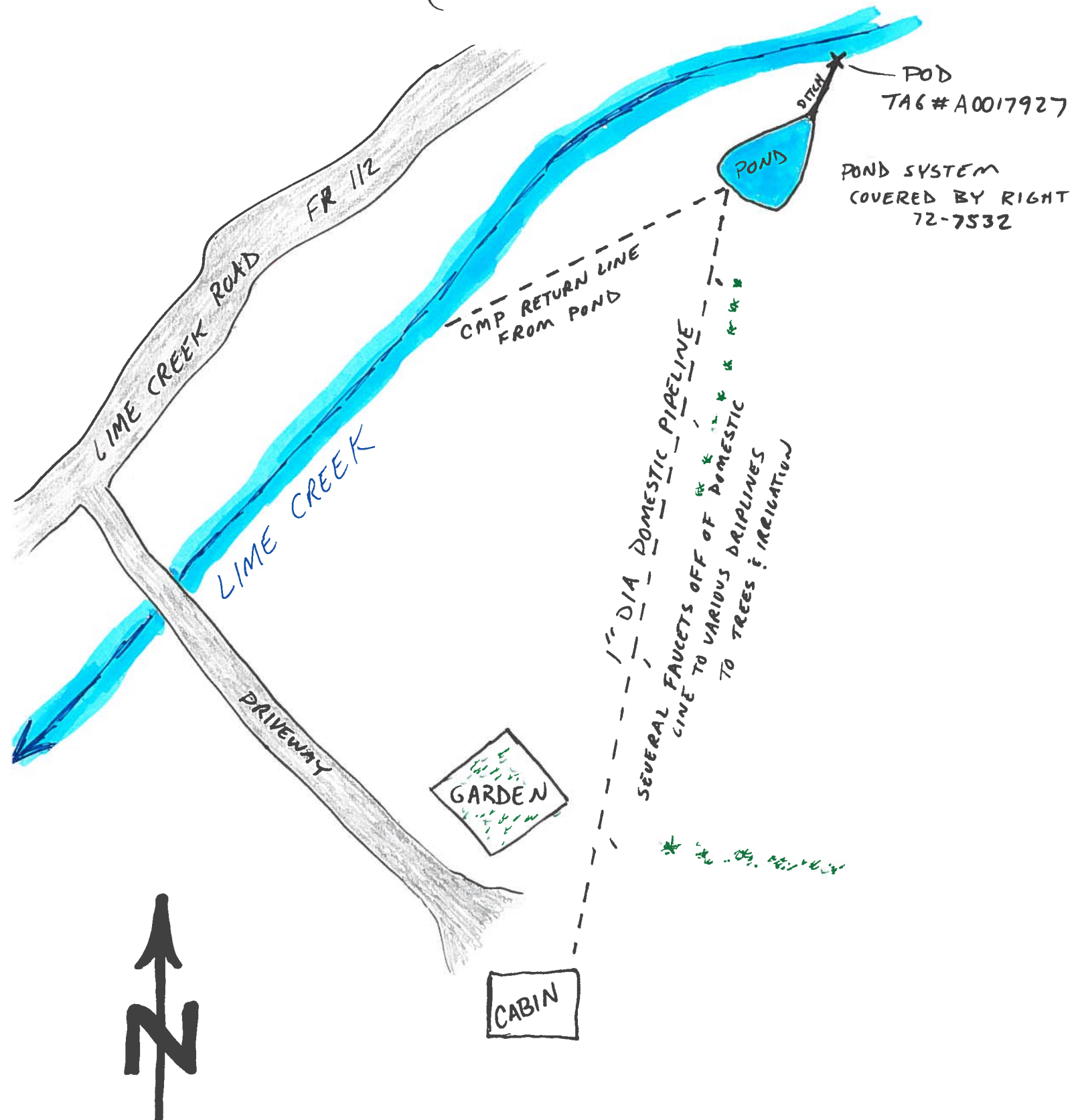
I. AUTHENTICATION

Field Examiner's Name Ray Shrin Date 2/6/12

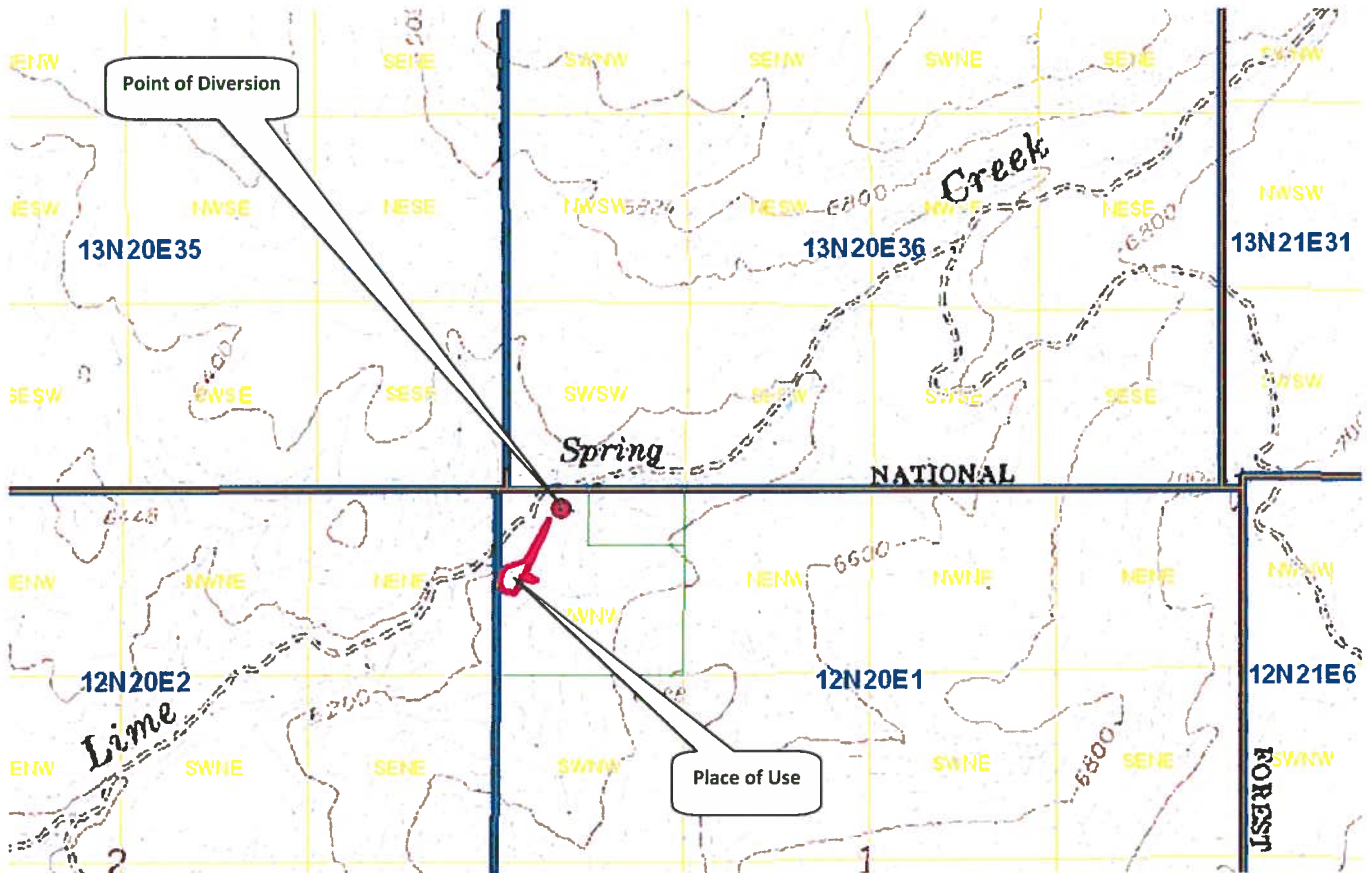
Reviewer Ken Nagy Date 2/15/12

72-16644 System Diagram

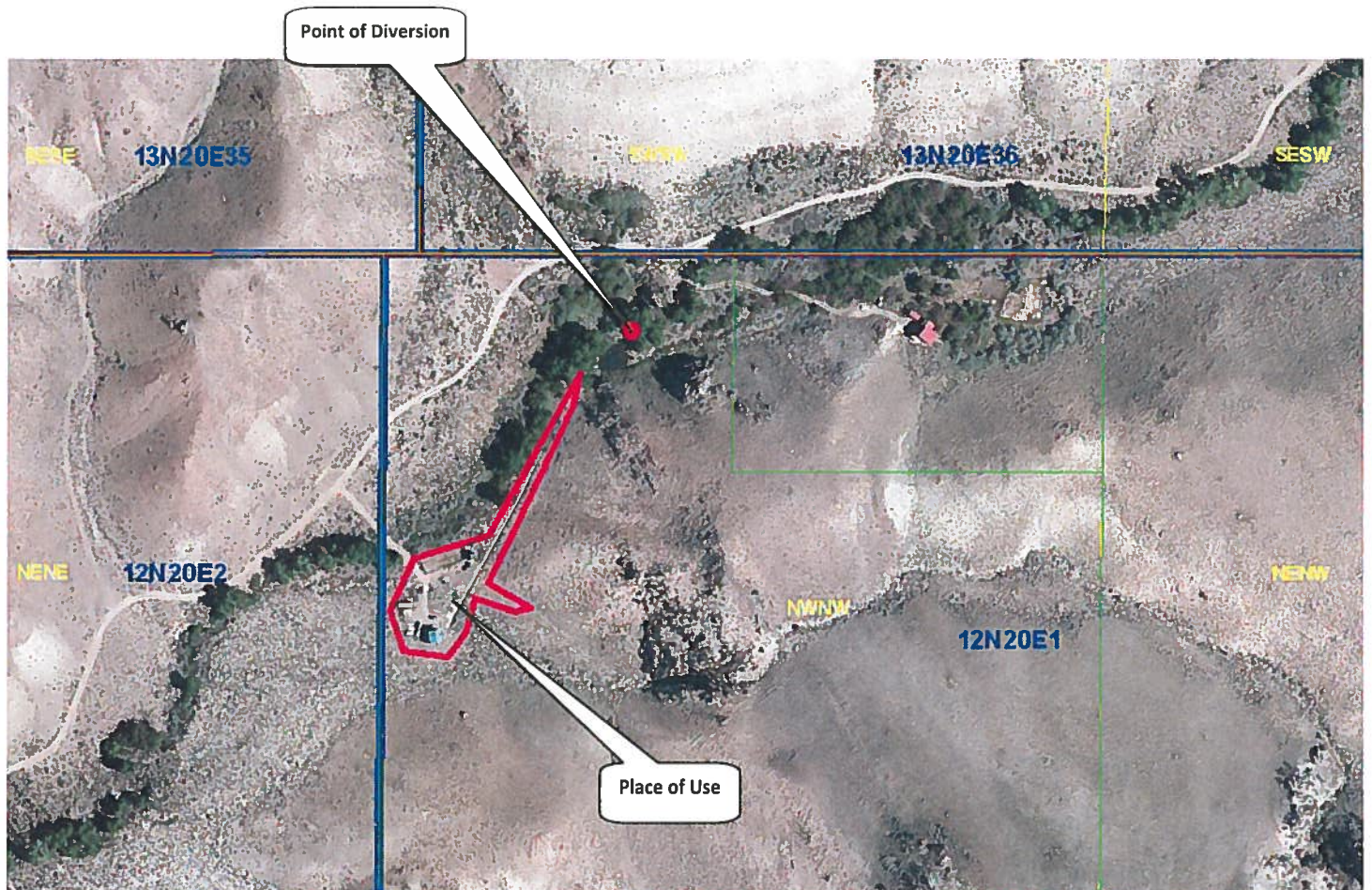
(NOT TO SCALE)



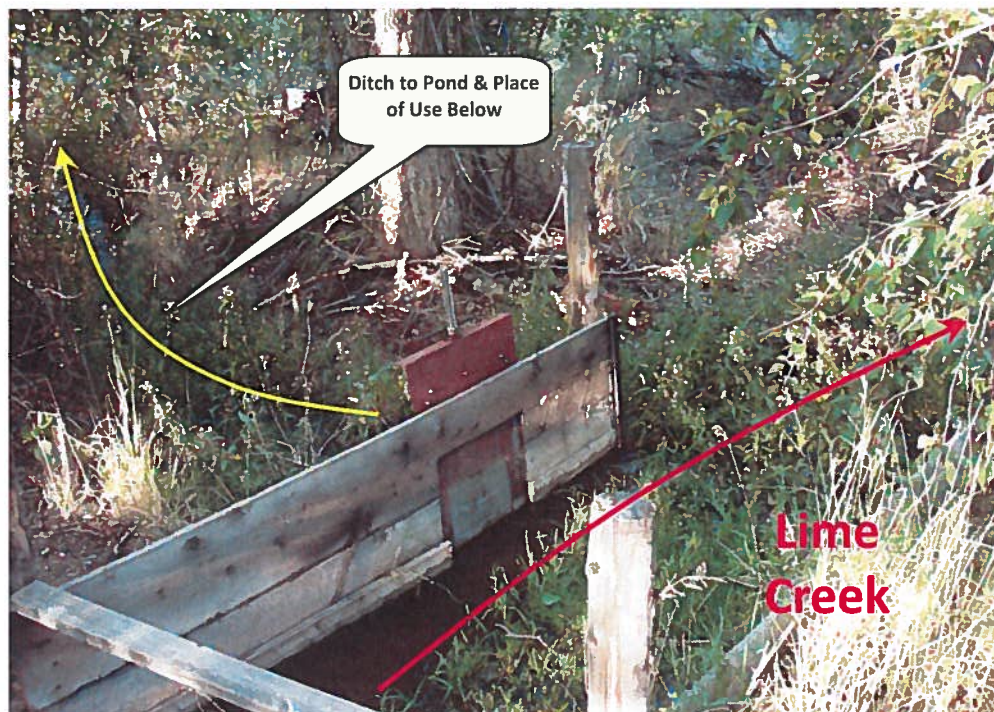
72-16644 Field Exam Map



72-16644 Field Exam Map



72-16644 Field Exam Photos



ABOVE: View of point of diversion on Lime Creek (site tag # A0017927). This is the same point of diversion for right 72-7532 for wildlife use associated with a small pond on the property.

BELOW: View of the 72-7532 wildlife pond just down the ditch from the point of diversion. A pipeline from this pond leads to the domestic use associated with right 72-16644.



72-16644 Field Exam Photos



ABOVE: View of valve box below the 72-7532 wildlife pond shown in previous photo.

BELOW: View inside valve box shown in view above.



72-16644 Field Exam Photos



ABOVE: View below valve box, along the buried pipeline to place of use. Note faucet with plastic pipeline that leads to a drip line along a row of small trees planted in the sagebrush (by Benny).

BELOW: View further down pipeline than view above showing additional faucet, various pipelines, cabin, and locations of additional visible trees (circled).



72-16644 Field Exam Photos



ABOVE: View of garden served by domestic pipeline.

BELOW: View of flow measurement being taken by opening faucet valve along domestic pipeline and measuring flow with a five gallon bucket and stop watch.



72-16644

9/12/2011 Field Notes

