

A. GENERAL INFORMATION

Exam Date: 5/29/2012

2. Accompanied by: Field exam completed in house.

SPRING

CROY CREEK

1. Other water rights with the same place of use: 37-16607 (Federal Reserve right); 37-16490 (in-stream stockwater)
2. Other water rights with the same point of diversion: 37-16607; 37-16490

1. LOCATION OF POINT(S) OF DIVERSION:

NW1/4NW1/4NE1/4

Sec. 30, Twp 02N, Rge 17E, B.M.

BLAINE County

Method of Determination: Point of diversion determined by using 2009, 2011 aerial photography, 2010 Bing Maps satellite imagery and 2011 Google Earth satellite imagery. Point of diversion appears to be in Twp 02N, Rge 17E, Sec. 30, NWNWNE¼. See attached map.

2.

PLACE OF USE: STOCKWATER

[illegible]

PLACE OF USE: WILDLIFE

[illegible]

Method of Determination: Place of use determined by using 2009, 2011 aerial photography, 2010 Bing Maps satellite imagery and 2011 Google Earth satellite imagery. Point of diversion appears to be in Twp 02N, Rge 17E, Sec. 30, NENW¼. See attached map.

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

D. FLOW MEASUREMENTS

2. Measurements: BLM personnel stated on the application for permit that the flow rate was 10 – 15 gpm.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method:

Hazen Williams Full Pipe Flow Calculation (based on information provided by the BLM, distance derived in ArcMap and elevations estimated using Google Earth):

$$Q = 0.432 C_1 D^{2.63} S^{0.54}$$

Where:

C_1 = roughness coefficient
 D = Diameter in feet
 S = Slope

$S = 10' \text{ elevation drop} / 138' \text{ distance} = 0.072$

$C_1 = 140$ (coefficient for polyethylene)

$D = 0.104'$ (1.25" polyethylene)

$Q = 0.04 \text{ cfs}$

F. VOLUME CALCULATIONS

~~Not required under current beneficial use field exam rules.~~

Limit to
13,000 gpd

G. NARRATIVE/REMARKS/COMMENTS

Permit 37-8933 is for 0.02 cfs stockwater and wildlife. Source is a spring referred to as Kelly Mountain Spring tributary to Croy Creek.

Application for permit 37-8933 and proof of beneficial use, submitted by the US Dept of Interior, Bureau of Land Management were received on September 20, 2000.

Kelly Mountain Spring is located approximately 1.9 miles north and 10.9 miles west of the intersection of Hwy 75 and Hwy 23 in Bellevue. Point of diversion and place of use are located in the NWNWNE¼ of Sec. 30, Twp 02N, Rge 17E, and are in Water District 37. The trough system consists of a spring box, pipe, two troughs and an overflow pipe. According to the application for permit, up to 430 range cattle, 4000 sheep and varying numbers of wildlife use the water source. Estimates used in the Hazen Williams Full Pipe Flow Calculation indicate the developed system is capable of delivering 0.04 cfs and information provided on the application for permit estimates the spring flow to be between 10 – 15 gpm (0.02 – 0.03 cfs).

Overlap analysis indicates there is place of use and point of diversion overlap with water right 37-16607, a Federal Reserve water right pursuant to Public Water Reserve 107. PWR 107 rights are intended as in-stream stock watering. As such, condition 238 will be added to the license to clarify the relationship between the two rights. There is also an in-stream

stockwater right, 37-16490, recorded at the same point of diversion (beginning of reach) and place of use.

Recommend licensing a total of 0.02 cfs for stockwater and wildlife 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>
STOCKWATER	01/01 to 12/31	0.020 CFS
WILDLIFE	01/01 to 12/31	0.020 CFS
<u>Totals:</u>		0.020 CFS

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

Date

6-6-2012

Reviewer

Date

6/28/2012

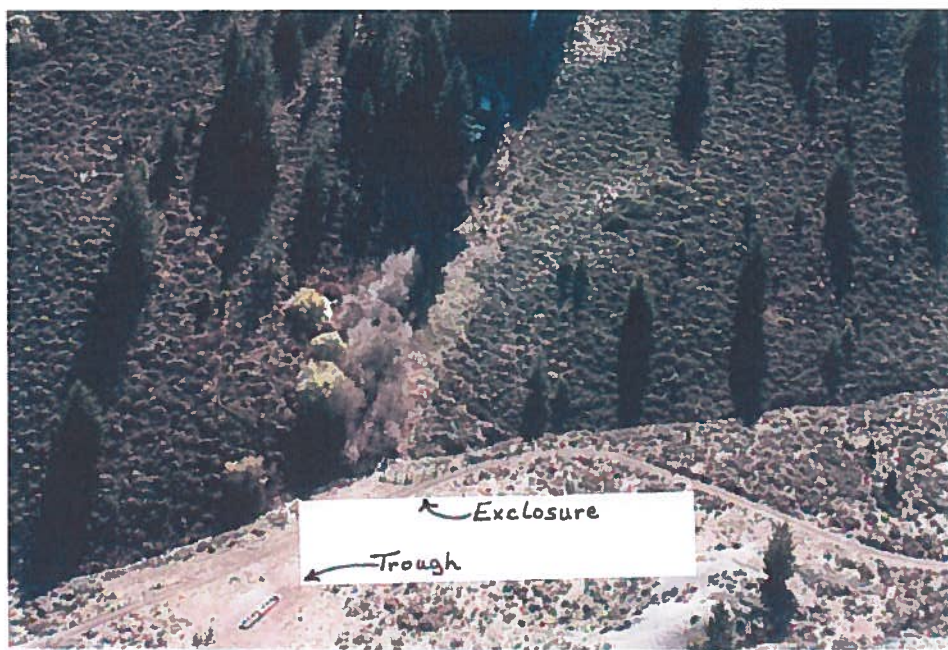
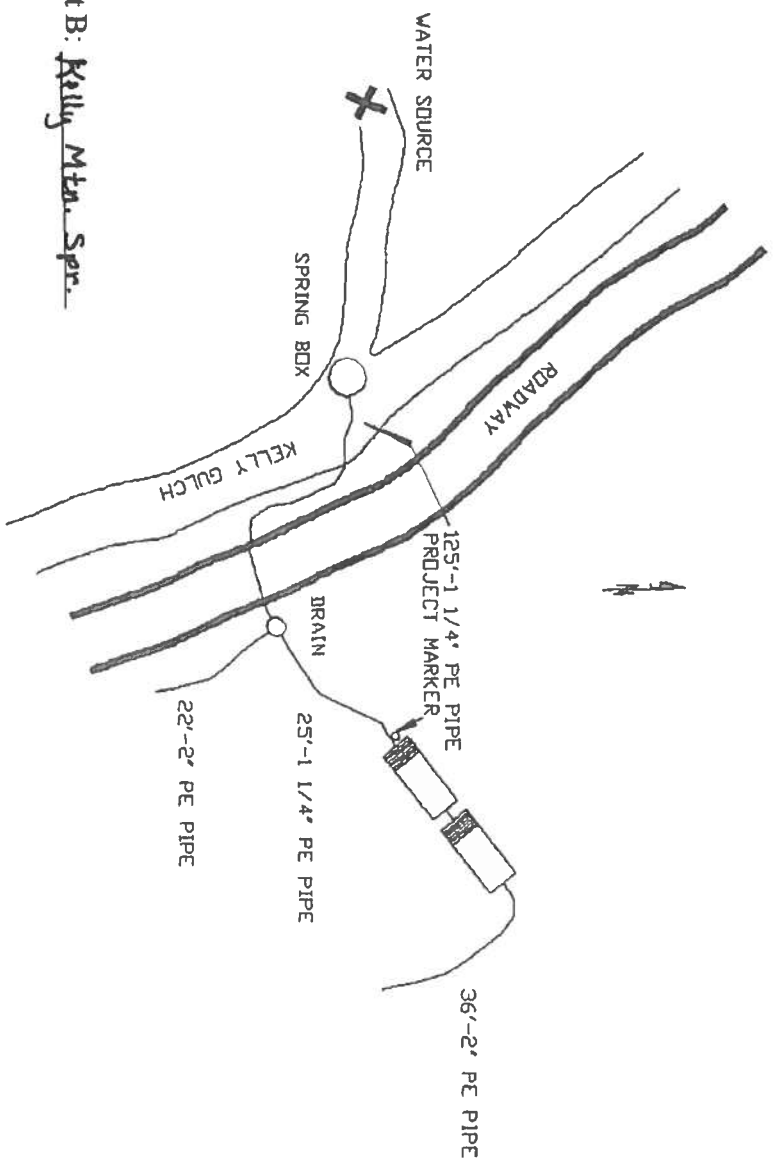


Figure 1: BLM Aerial photo of development.



Figure 2: BLM photo of troughs.

APR 11 2001
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- NOTES:
1. SPRING BOX IS INSTALLED AT THE LOWER END OF THE SPRING INFLUENCED AREA AS OUTLINED IN ENVIRONMENTAL ASSESSMENT #1D050-EA-94017.
 2. A CONTROL VALVE (FLDAP) IS INSTALLED IN TROUGH AS REQUESTED IN ENVIRONMENTAL ASSESSMENT #1D050-EA-94017.
 3. TO PREVENT FREEZING, GATE VALVE IN SPRING BOX MUST BE CLOSED AND GATE VALVE AT STATION 1+25 MUST BE OPENED IN THE FALL BEFORE TEMPERATURE FALLS BELOW FREEZING.
 4. TO FILL TROUGH, GATE VALVE AT STATION 1+25 MUST BE CLOSED AND GATE VALVE IN SPRING BOX MUST BE OPENED.
 5. MATERIALS FOR BUCK AND POLE FENCE REQUESTED BY RESOURCE AREA IS BACK ORDERED AND FENCE IS NOT SHOWN ON THIS DRAWING.

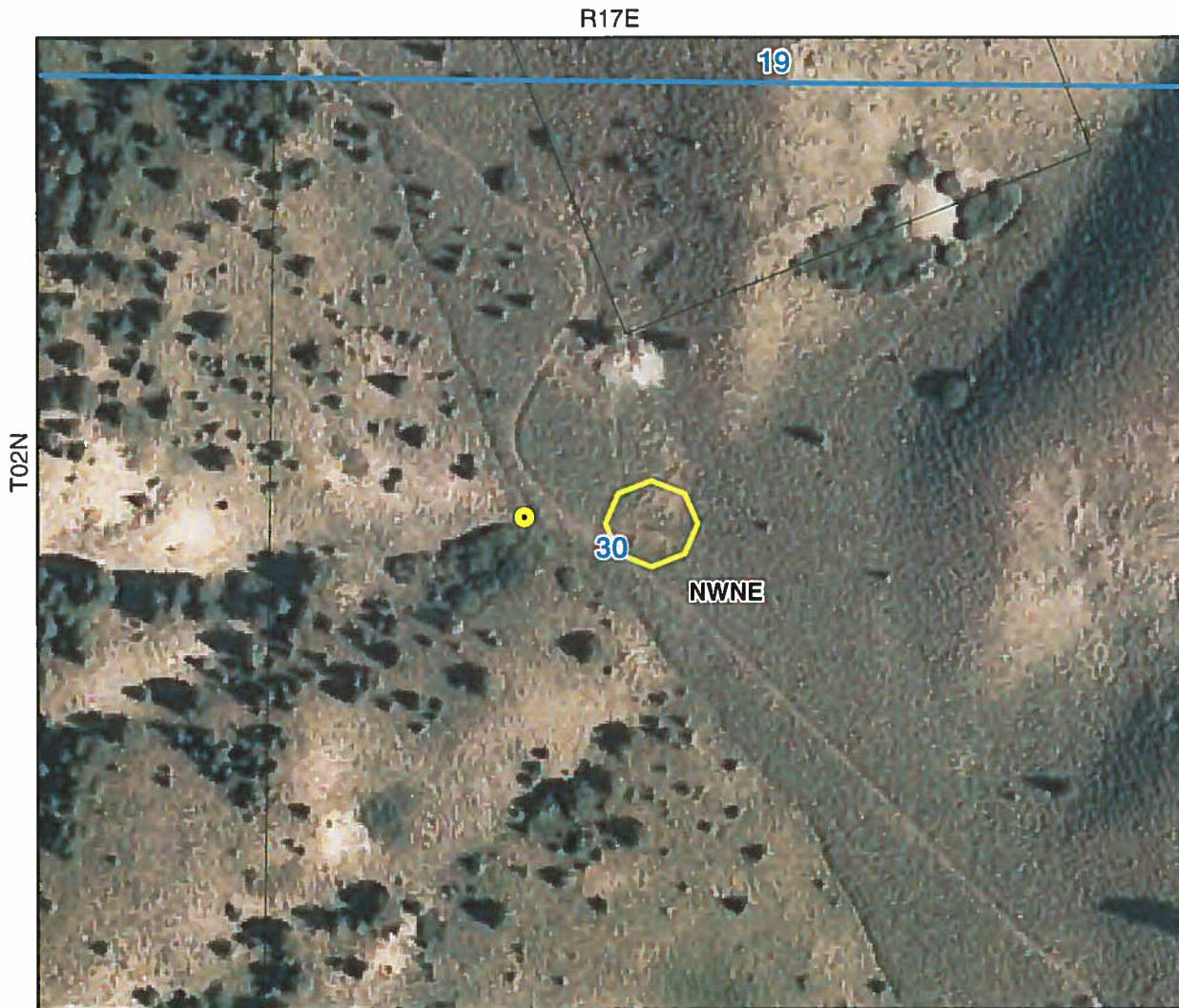
Attachment B: Kelly Mtn. Spr.

T. 2N, R. 17E, SEC. 30

PROJECT #37-5711	
U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT SHOSHONE DISTRICT OFFICE	
KELLY MOUNTAIN SPRING AS BUILT DRAWING	
DESIGNED _____	
REVIEWED _____	
APPROVED <u>2-31-94</u>	
DRAWN <u>R. JAYD</u>	SCALE <u>NONE</u>
	SHEET <u>1</u> OF <u>1</u>
DRAWING NO. _____	

State of Idaho
Department of Water Resources
Attachment To Water Right License
37-8933

This map depicts the STOCKWATER & WILDLIFE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.025 0.05 0.1 Miles

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

