

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8936

Exam Date: 5/29/2012

1. Current Owner: US DEPT OF INTERIOR
BUREAU OF LAND MANAGEMENT
400 WEST F ST
SHOSHONE ID 83352
(208)732-7200

2. Accompanied by: Field exam completed in house.

3. SOURCE

SPRING

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-15718 (in-stream stockwater)
2. Other water rights with the same point of diversion: None

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

SPRING

NW1/4SE1/4SW1/4

Sec. 19, Twp 01N, Rge 20E, 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 01N, Rge 20E, S 19, NWSESW¼. See attached map.

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<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>	
01N	20E	19												X					

PLACE OF USE: WILDLIFE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<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>	
01N	20E	19												X					

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 01N, Rge 20E, S 19, SESW¼. 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 None

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

$$S = 42' \text{ elevation drop} / 260' \text{ distance} = 0.16$$

$$C_1 = 140 \text{ (coefficient for polyethylene)}$$

$$D = 0.104' \text{ (1.25" polyethylene)}$$

$$Q = 0.06 \text{ cfs}$$

F. VOLUME CALCULATIONS ~~Not required under current beneficial use field exam rules.~~

Limit to
13,000 gpd.

G. NARRATIVE/REMARKS/COMMENTS

Permit 37-8936 is for 0.02 cfs stockwater and wildlife. Source is a spring referred to as Hawk Spring.

Application for permit 37-8936 submitted by the US Dept of Interior, Bureau of Land Management was received on September 01, 2000 and proof of Beneficial Use was submitted September 20, 2000.

Hawk Spring is located approximately 6.7 miles east and 3.8 miles south of the intersection of Hwy 75 and Hwy 23 in Bellevue. Point of diversion and place of use are located in the NWSEW¼ of Sec. 19, Twp 01N, Rge 20E. The trough system consists of a spring box, pipe, trough and overflow pipe. According to the application for permit, up to 720 range cattle 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 0.06 cfs.

Overlap analysis indicates there is an in-stream water right, 37-15718, listed in the same 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

Reviewer

Date



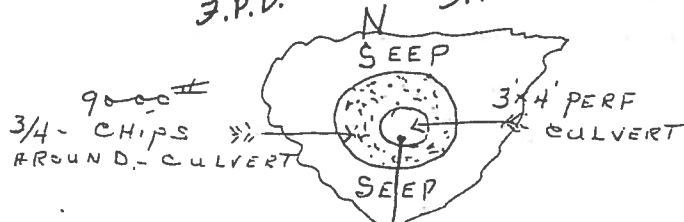
Figure 1: BLM photo of trough alongside an unnamed stream.

Hawk Spring

T-1N - R-20E

S-303.P.D.

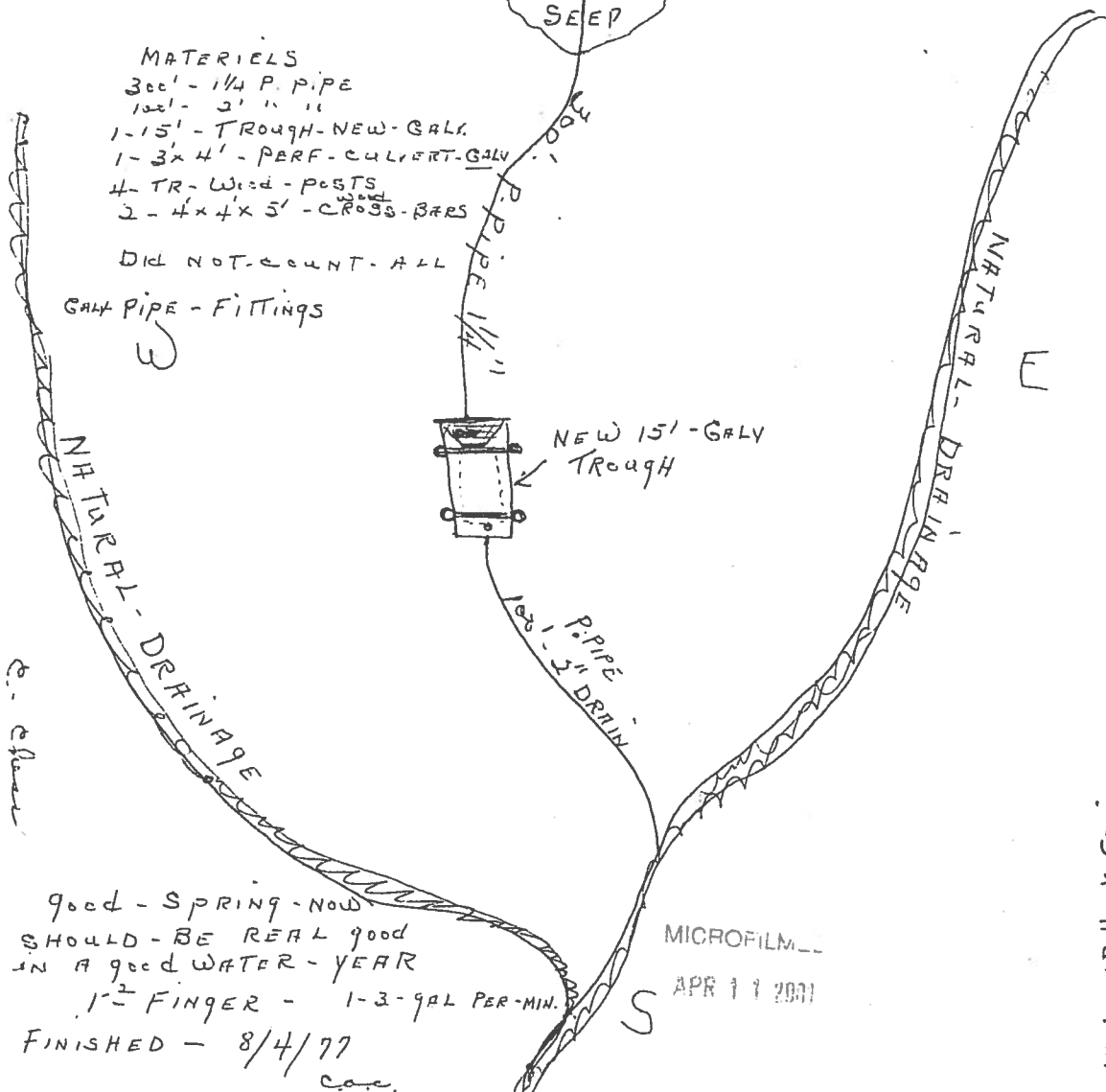
NW 1/4 - SW 1/4 3.P.D. - 8100-6242-4762



- MATERIELS
- 300' - 1 1/4" P. PIPE
 - 100' - 2" " "
 - 1 - 15' - TROUGH - NEW - GALV.
 - 1 - 3' x 4' - PERF. CULVERT - GALV.
 - 4 - TR. WOOD - POSTS
 - 2 - 4' x 4' x 5' - CROSS-BARS

DID NOT COUNT ALL

GALV PIPE - FITTINGS



good - SPRING - NOW
SHOULD BE REAL good
IN A good WATER - YEAR

1" FINGER - 1-3-GAL PER-MIN.

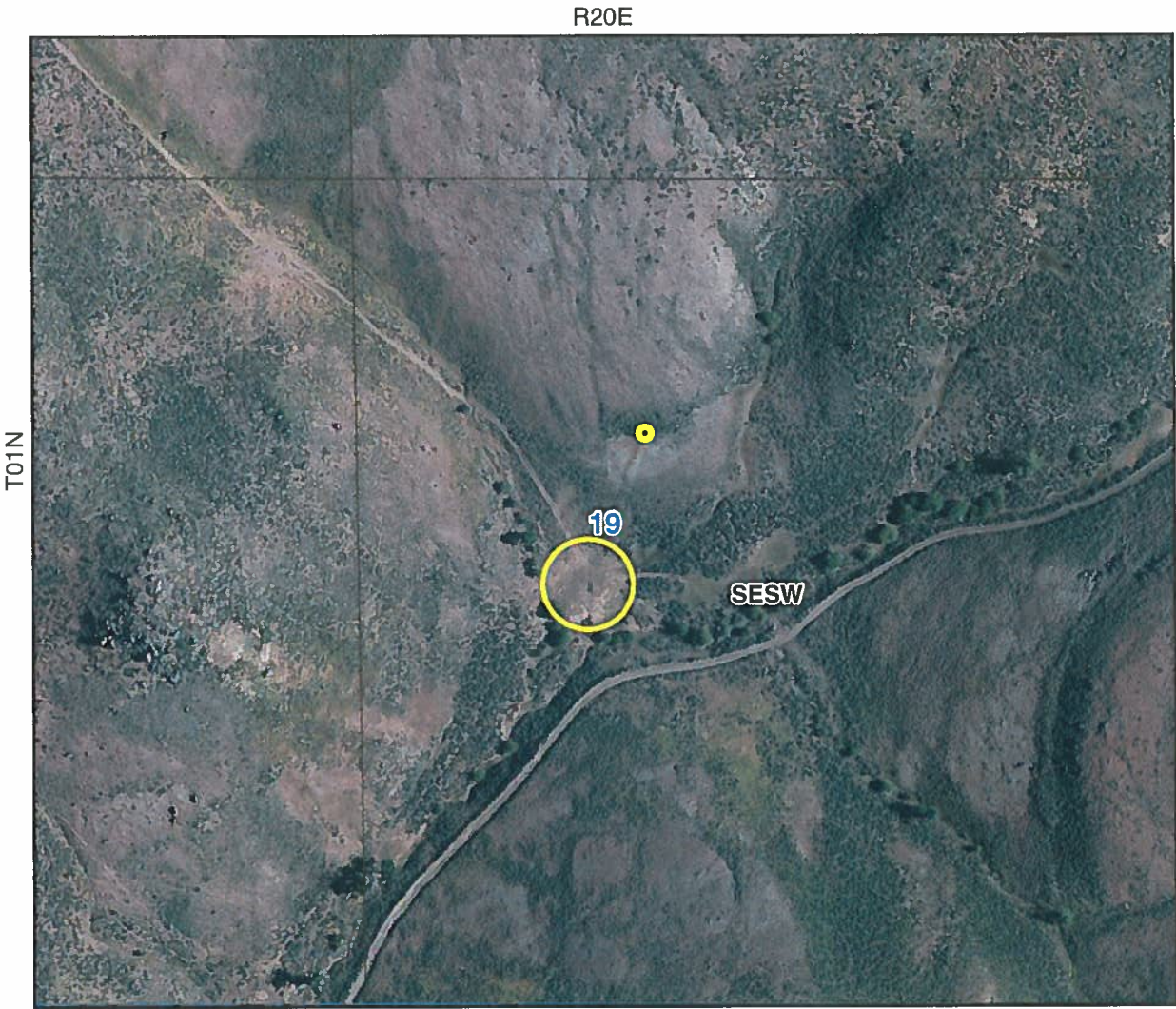
FINISHED - 8/4/77
C.C.C.

MICROFILM

APR 17 2011

State of Idaho
Department of Water Resources
Attachment To Water Right License
37-8936

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 0.035 0.07 0.14 Miles

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

