

7/2012

IN-OFFICE BENEFICIAL USE EXAM REPORT

Permit No. 103-123106

Prepared by ANGIE GRIMM

Date 10/19/2013

Same as permit

Different than permit

Owner Name ☒ ☐

Owner Address ☒ ☐

Source ☒ ☐

Tributary ☒ ☐

POD ☒ ☐

POU ☒ ☐

Beneficial Use(s) ☐ ☒ 4 LOTS DOMESTIC INTERNAL USE (NOT 8 AS PERMITTED)

Exam Fee Required for Permitted Rate \$ 50.00

Exam Fee Paid \$ 50.00

Overlaps ☐ Yes ☒ No

Technical Confirmation Tools

ArcMap (Bing) ☒

Photo ☐

Taxlot ☒

Well Log ☐

~~Govt Agency Records~~

GPS ☒ SPRING PD: N43°39.7863' W116°3.06216'

Photos ☐

Diagrams ☐

Other ☒ explain: SITE VISIT CONDUCTED 7/26/2012. W/ CHRIS BLICKFELDT - HIGH COUNTRY ESTATES (HOA)

Conditions/Comments SITE VISIT GPS SPRING + VERIFY DOMESTIC CONNECTIONS.

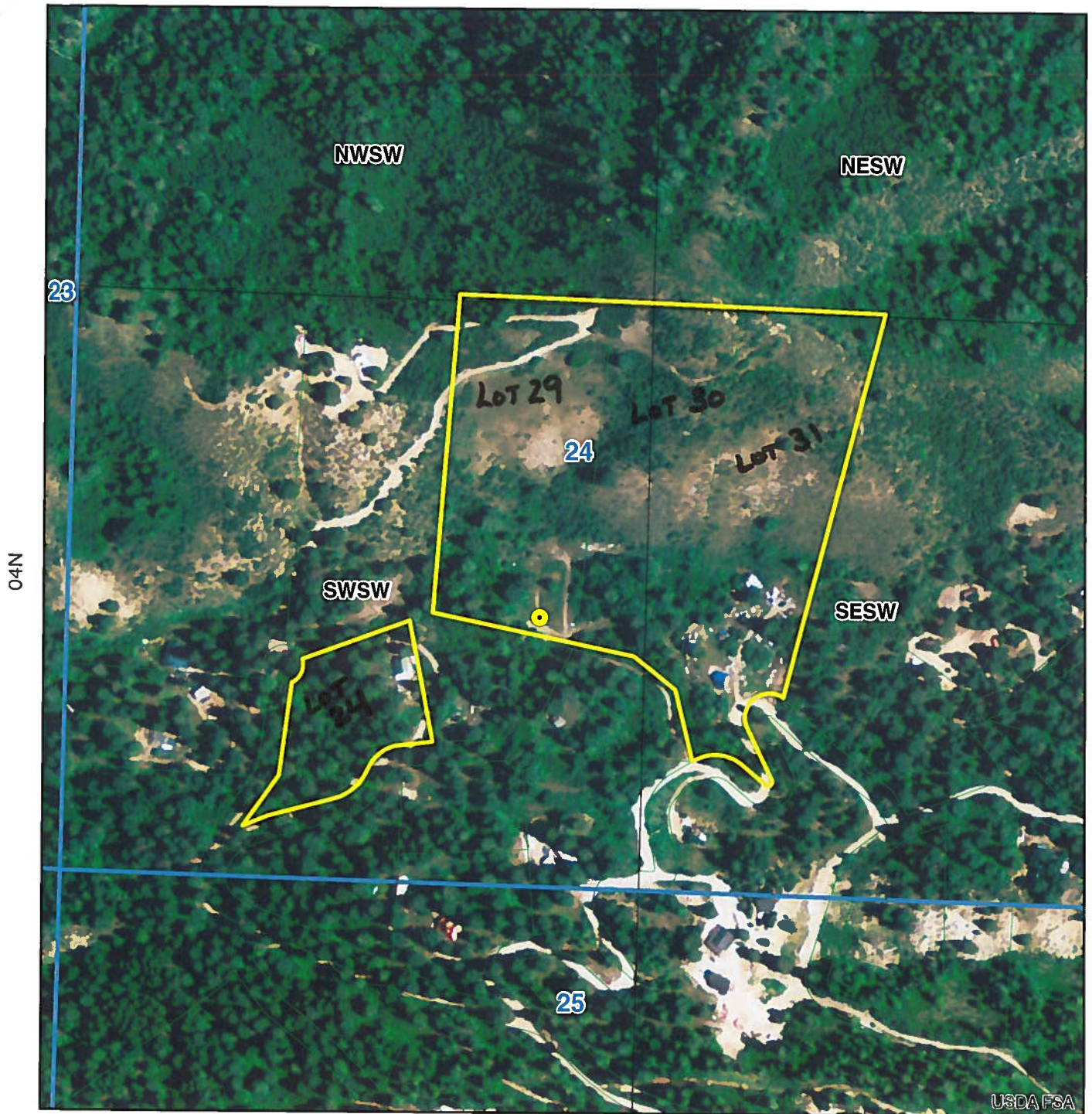
SPRING GRAVITY DIVERSION TO INDIVIDUAL LOT'S HOOK-UPS. CISTERNS WITH 3/4 HP PUMPS ON 2 (LOT 24 + 30) LOTS. GRAVITY DIVERSIONS AT LOTS 29 + 31. TOTAL 4 LOTS INTERNAL DOMESTIC ONLY (PER CONDITIONS). PD ON LOT 29. NO LICENSING AMENDMENTS NEEDED.

Exam Date Entered AA

Draft License Created AA

Shapes Updated AA

State of Idaho
Department of Water Resources
63-12366 In-Office Beneficial Use Exam Report Map
03E



USDA FSA

● Point of Diversion

Place Of Use Boundary

Townships

PLS Sections

Quarter Quarters

Taxlots

0 0.0425 0.085 0.17 Miles



FIELD NOTES ATTACH TO "IN-OFFICE" EXAM.

STATE OF IDAHO DEPARTMENT OF WATER RESOURCES BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATION

Permit No. 103-1236061. Owner HIGH COUNTRY STATES Phone No. 345-8774Current address c/o CHRIS BLICKFELDT2. Examiner's name ANGIE G. EXAM DATE 7/26/20123. Accompanied by CHRIS BLICKFELDT Email _____Address 2310 TOLLGATE RDRelationship to permit holder CONTACT FOR HOA Phone No. 345-87744. Source SPRING tributary to SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use NO OTHER LOT 31 (USE SPRING AS BACK-UP DOMESTIC USE MOSTLY)2. Other water rights with the same source and point of diversion NO OTHER WELLS/WRS

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

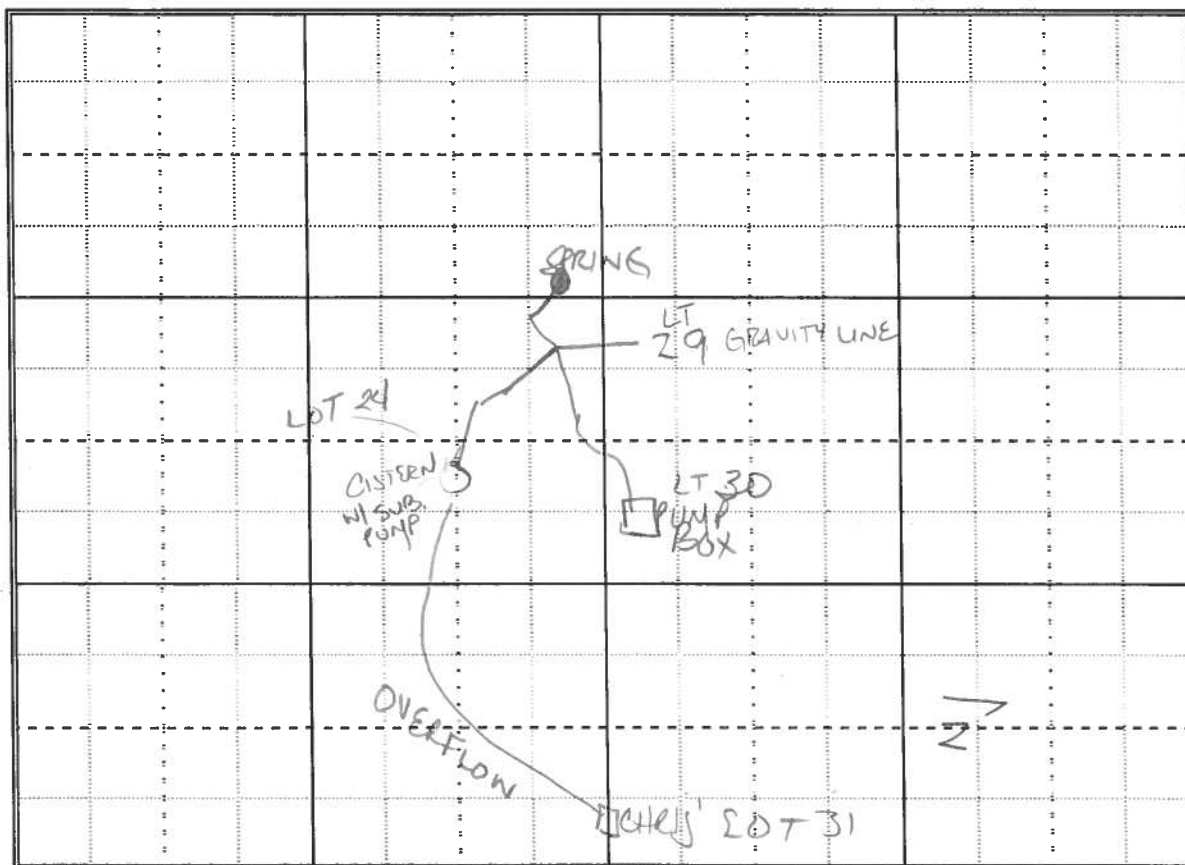
Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks
		SE	SW	SW	24	4N	3E	BOISE	N43.0631° W 116.05103°

2. Place(s) of Use:

Method of determination AERIAL PHOTO + FIELD VERIFICATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	3E	24											D	D					

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" = _____

- ☐ 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

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
PUMPS @ IND.		3/4	CHICAGO HARPER	FREIGHT(?)	
HOOK-UPS NOT ON		3/4			
MAIN SPRING.					

*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
5 GALLON BUCKET + STOP WATCH	N/A	N/A	N/A	N/A	N/A	N/A

2. **Measurements:** 1 GALLON IN 16.6 SECONDS FROM OVERFLOW TO LOT 31
 250 GALLONS LESS THAN 3 HRS

$$\frac{250 \text{ GAL}}{3 \text{ HR}} \times \frac{1 \text{ HR}}{60 \text{ MIN}} = \frac{250}{60} = 4.17 \text{ GPM} \quad 1 \text{ CFS} = 0.009 \text{ CFS} = 0.01 \text{ CFS FROM OVERFLOW TO LOT 31}$$

E. NARRATIVE/REMARKS/COMMENTS

1 gallon in 16.6 seconds @ end of line @ Chan's place.
= Presumably lot 24 may be divert from system @ same time
not sure.

LOT 30 SHALLOW WELL 3/4 HP 60 HZ MAX FLOW 898 GPM MAX 65 PSI
MAX LIFT 140 FT MAX SUCTION DEPTH 26 FT ITEM 02955
CHICAGO HARBOR FREIGHT BRAND PSI GAGE = 0.8 PSI BUT NOT RUNNING

LOT 24 3/4 HP SUBMERSIBLE PUMP

1 IN BURIED LINE FROM SPRING TO 1 1/2 LINE OVERFLOW (LOT 31)

GRAVITY FROM BURIED LINES TO IND LOT HOOK-UPS CISTERN &
N/ PUMP FOR 2 LOTS (LOT 24 + LOT 30). GRAVITY TO LOT 29 +
LOT 31. WATER TO LOTS 24, 29, 30 + 31. NOT USED ^{DOM WELL} LOT 28.
NO OTHER HOOK-UPS TO OTHER LOTS. LOT 31 HAS DOM WELL TOO.
LOT 24 + 30 USE SPRING AS SOLE SOURCE OF WATER. LOT 29 NO HOME
BUILT BUT HAS HOOK-UP TO SPRING. GRAVITY IF WANT TO USE.

$$\frac{1 \text{ GAL}}{16.6 \text{ SEC}} \times \frac{60 \text{ SEC}}{1 \text{ MIN}} = \frac{100}{16.6} = 3.6 \text{ GPM} \times \frac{1 \text{ CFS}}{448 \text{ GPM}} = 0.008 \text{ CFS} = 0.01 \text{ CFS FROM OVERFLOW TO LOT 31}$$

0.01 CFS TO LOT 31 VIA OVERFLOW

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☐ Yes ☐ No If no, what must be done to meet the permit requirements?

INTERNAL (NO IRR) USE 4 LOTS/HOMES = 0.10 CFS MAX ALLOWABLE

$$\text{HP EQ} = \frac{8.8 \times 0.7 \times 0.75}{(2.31 \times \text{PSI}) + 2.147} = \frac{4.62}{90.4 + 40.4} = \frac{4.62}{132.4} = 0.03 \text{ CFS}$$

~40 ft elev change PSI = 40 PSI DOM USE 3/4 HP = 0.75 HP

0.03 CFS EACH LOT w/ 3/4 HP PUMP 0.01 CFS EACH LOT GRAVITY

0.03 + 0.03 + 0.01 + 0.01 = 0.08 CFS REC. 0.10 CFS MAX ALLOWABLE.

CALC = 0.08 CFS

MAX B.U. ALLOWABLE = 0.10 CFS

EXAM FEE = UP TO 0.20 CFS

PERMITTED = 0.13 CFS

0.08 CFS = 80% REC 0.10 CFS FOR UC AS

0.10 CFS

CALC/REQ. 75% OF ALLOWABLE RATE
THEO IS

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

HP EQ 2 LOTS w/ PUMPS = 0.03 CFS EACH LOT

2 LOTS w/ GRAVITY 5 GALLON BUCKET ON ONE 0.01 CFS EACH LOT

G. 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:

IN HOUSE DOM FOR 4 LOTS =

LOTS 24, 29, 30, + 31

 $V_R = 0.6 \text{ AFA} \times 4 = 2.4 \text{ AFA}$ $V_R < V_D$ $V_D = 0.10 \text{ CFS} \times 365 \times 1.9835 = 72.4 \text{ AFA}$ **H. RECOMMENDATIONS****1. Recommended Amounts**

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
DOMESTIC	1/1	12/31	0.10 CFS	2.4 AF
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			_____	_____

2. Recommended Amendments☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature _____ Date _____

SEAL

Reviewer _____ Date _____



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

July 11, 2012

High Country Estates
c/o Chris Blickfeldt and/or
Mike McGuire
236 Tollgate Rd
Boise, ID 83716

RE: Scheduling Field Exam for Water Right Permit No. 63-12366

Dear Mr. Blickfeldt and/or Mr. McGuire:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the weeks of July 16 and July 23, 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 conditions during the examination. The permit authorizes domestic use of spring water for internal use of up to 8 homes.

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 July 19, 2012.** If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, reading 'Angela M. Grimm'.

Angela M. Grimm, P.G.
Water Resource Agent, Sr.