

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 21-13069

Exam Date: 6/19/2012

1. Current Owner: STATE OF IDAHO
DEPT OF PARKS & RECREATION
PO BOX 83720
BOISE ID 83720-0065
(208)334-4199

2. Accompanied by: Keith Hobbs

Phone No: (208) 558-7368

Address:

Relationship to Permit Holder: Employee

3. SOURCE

WEST THURMON CREEK SPRING

TRIBUTARY

THURMON CREEK

B. OVERLAP REVIEW

- Other water rights with the same place of use: None
- Other water rights with the same point of diversion: 21-12970, 21-12971 & 21-13110

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

WEST THURMON CREEK SPRING NE1/4SW1/4SE1/4 Sec. 16, Twp 12N, Rge 42E, B.M. FREMONT County

Method of Determination: GPS -111.502443, 44.364418

2.

<u>PLACE OF USE:</u>		COMMERCIAL																<u>Totals</u>
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>	
12N	42E 35													X	X			
														L 4				

<u>PLACE OF USE:</u>		DOMESTIC														<u>Totals</u>		
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>
12N	42E 26												X L 6			X L 7		
12N	42E 35			X L 3					X					X L 4	X			

<u>PLACE OF USE:</u>		FIRE PROTECTION														<u>Totals</u>		
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>
12N	42E 26												X L 6			X L 7		
12N	42E 35			X L 3					X					X L 4	X			

Method of Determination:

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>
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E0006511

*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>
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2. Measurements:

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS**2. Volume Calculations for Other Uses:****COMMERCIAL USE:**

Park Office/Visitors Center: Annual use (Approximately 8000 guest per yr)
 $8000 \times 60 = 480000 \text{ gal}/325850 = \mathbf{1.47 \text{ af}}$

Maintenance Compound:

Shop (1 bathroom) 2 Employees at 60gpd

$2 \times 60 = 120 \text{ gal} \times 365 = 43800/325850 = \mathbf{0.13 \text{ af}}$

1 Outside spigot (2 Seasonal employees) = $120 \text{ gal} \times 182 \text{ days} = 21840 \text{ gal}/325850 = \mathbf{.07 \text{ af}}$

2 fire hydrants = NO VOLUME

TOTAL COMMERCIAL VOLUME = 1.67 AF

DOMESTIC USE: Annual use = 365 days x 24 hrs = 8760 hours & Season Use = 153 x 24 = 3672 hours

Maintenance Compound:

2 Domestic residences with no irrigation = $.6 \times 2 = \mathbf{1.2 \text{ af}}$

Yurt Campground: Annual Use (approximately 100 visitors a yr)

$100/365 = .27 \text{ day} \times 60 = 16.2 \text{ gpd} \times 365 = 5913/325850 = \mathbf{.02 \text{ af}}$

Parking Area: Annual Use 13.7 visitors per day (approximately 5000 per yr)

$13.7 \times 60 \text{ gal} = 822 \text{ gal} \times 365 = 300030/325850 = \mathbf{0.92 \text{ af}}$

1 fire hydrant = NO VOLUME

TOTAL DOMESTIC VOLUME = 2.14 AF

G. NARRATIVE/REMARKS/COMMENTS

Spring head is a 14" diameter pipe placed into the hillside. There is a small building just downstream with a 500 gal storage tank. Storage tank has a 6" pipe on the bottom that connects to pipeline system. This pipe has a shutoff valve. The building is locked. Water is tested quarterly by employees, every 5 years for nitrates and every 10 years for GWUI, public water System # 720031. Water right 21-12970 – covers the balance of the building located in the NESW of sec 26 T12N R42E

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>
COMMERCIAL	01/01 to 12/31	0.040 CFS	1.7 AF
DOMESTIC	01/01 to 12/31	0.060 CFS	2.1 AF
FIRE PROTECTION	01/01 to 12/31	0.100 CFS	
<u>Totals:</u>		0.100 CFS	3.8 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

Kevin Matthews

Date

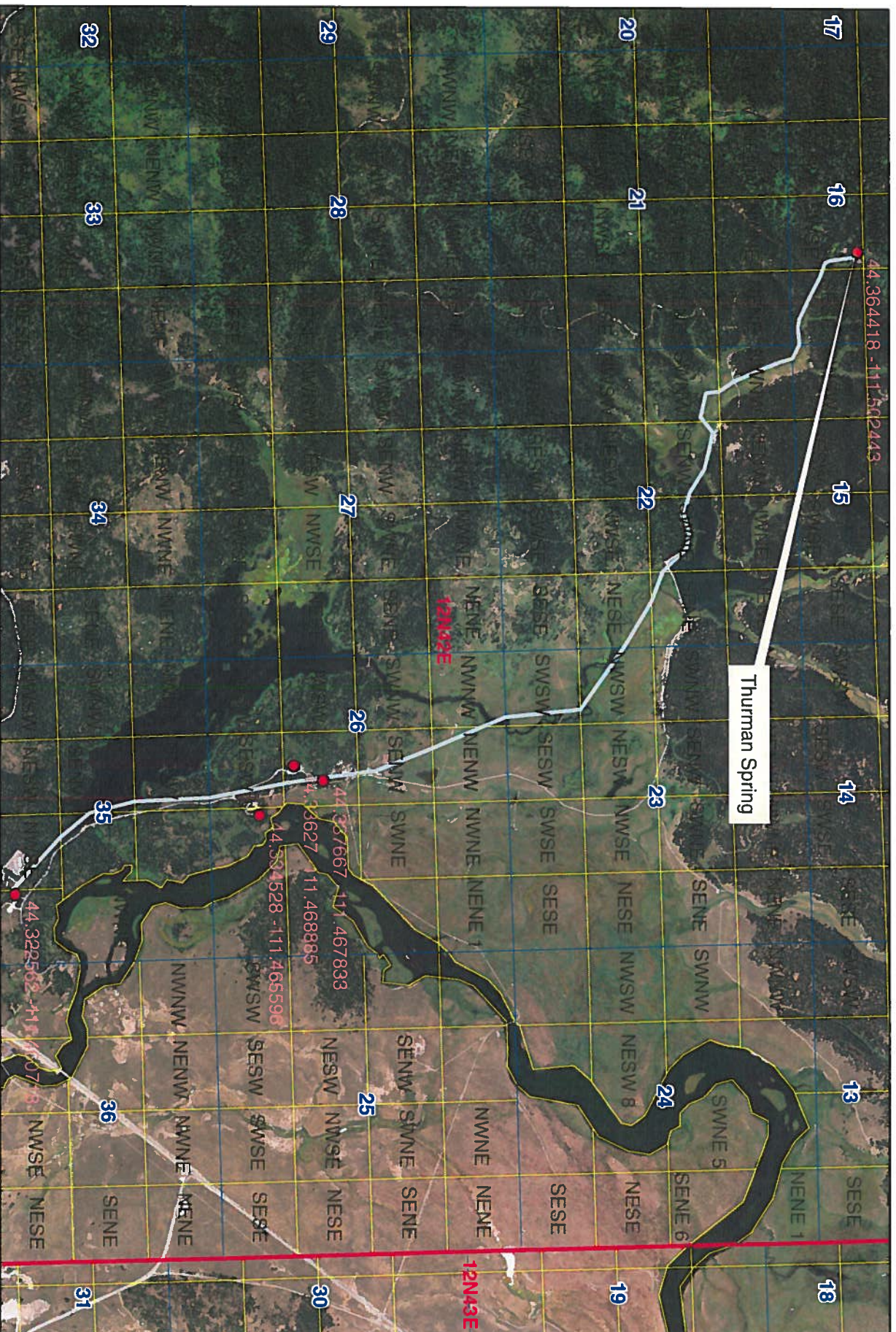
6-19-2012

Reviewer

James Cefalo

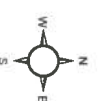
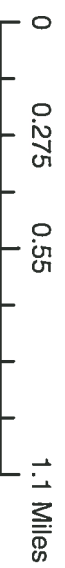
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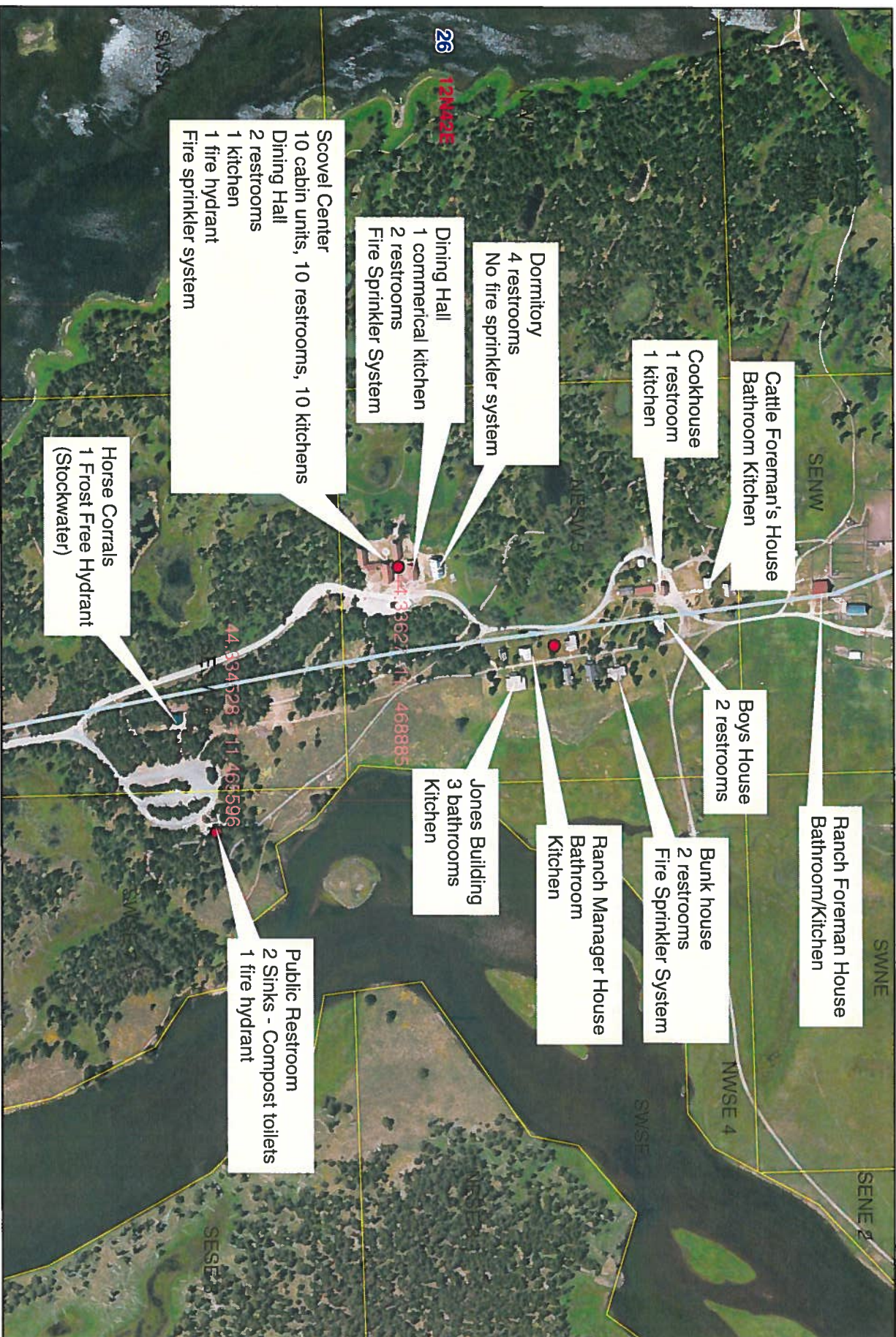
5/6/2013



Harriman State Park - Field Exam - June 19, 2012

- Pipeline
- Township/Range
- Sections
- QQ





Pipeline

Township/Range

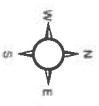
Sections

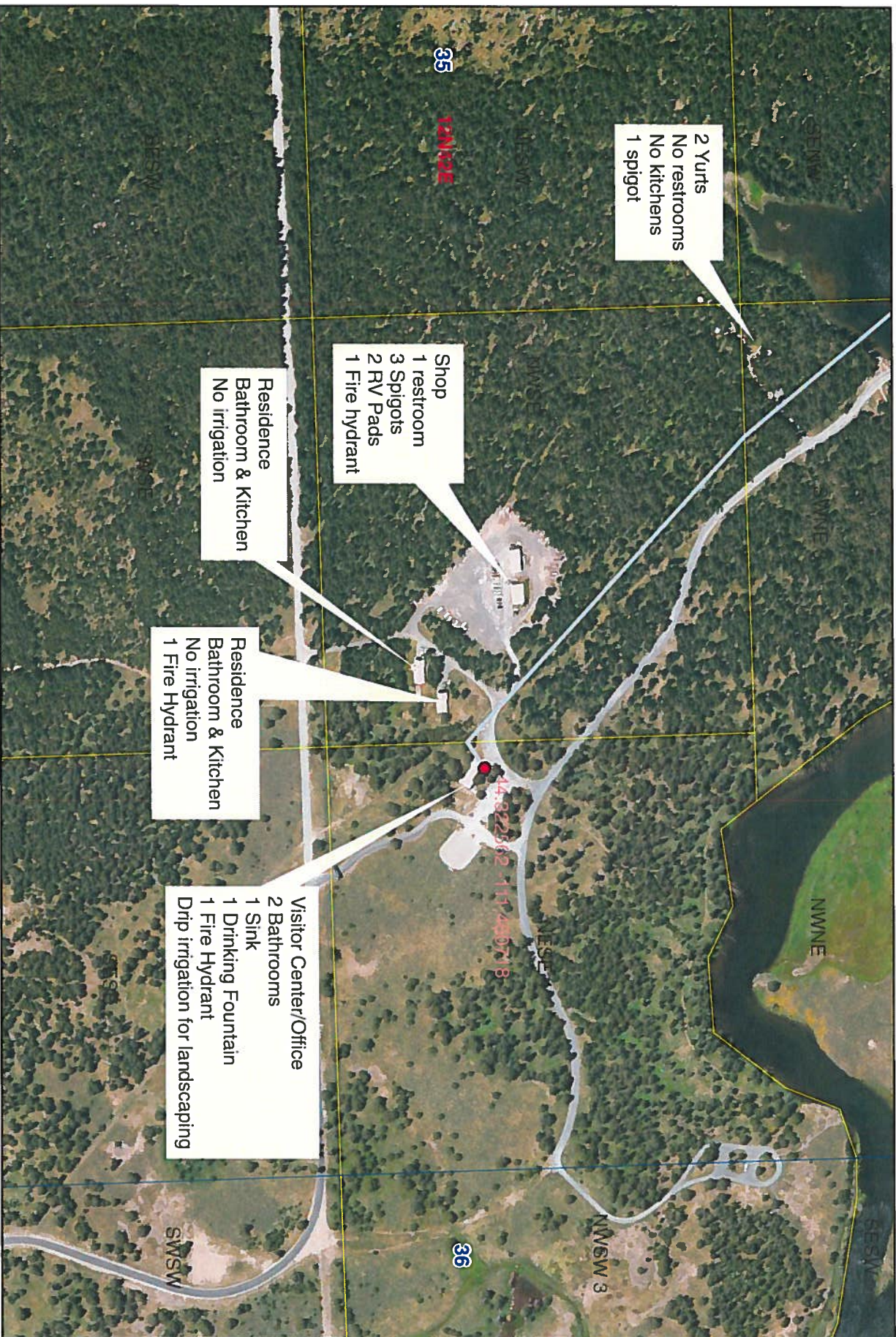
QQ

NOTE: Well in NESW is no longer used

All water for Harriman originates from Thurman Spring

Harriman State Park - Field Exam - June 19, 2012



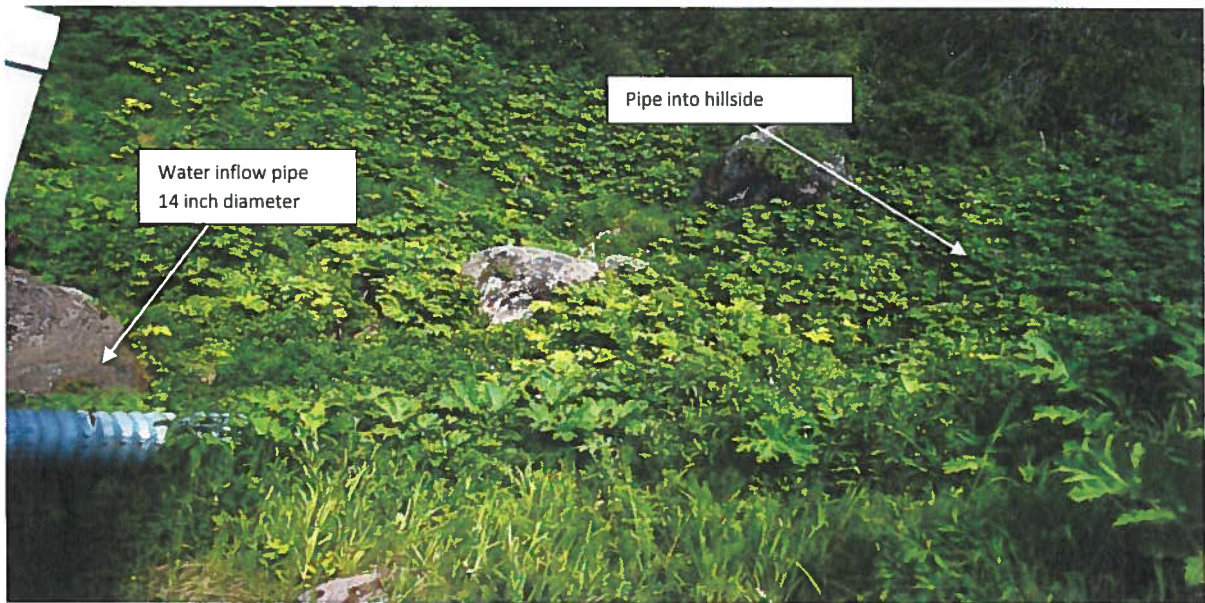


- Pipeline
- Township/Range
- Sections
- QQ

Harriman State Park - Field Exam - June 19, 2012



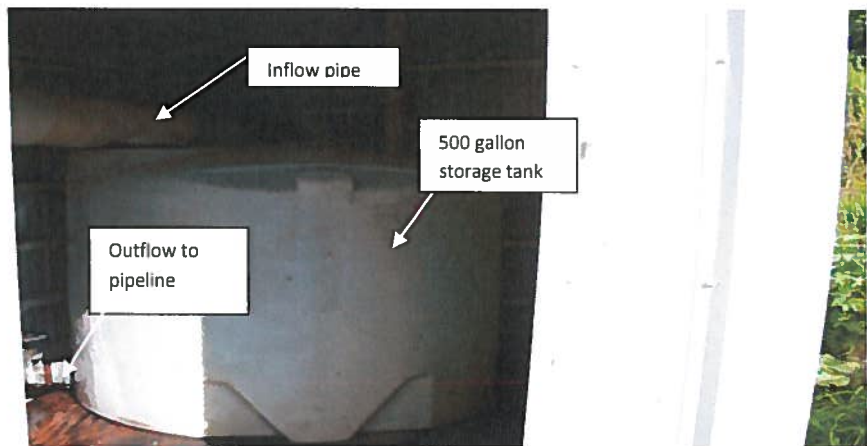
Harriman State Park – Field Exam – June 19, 2012 – Thurman Spring



Head of Thurman Spring



Spring house



Inside spring house



Outline to pipeline with a shut-off valve



Overflow back to Thurman Creek

02-13-2013

IDAHO DEPARTMENT OF WATER RESOURCES
Water Permit Report 21-13069

WATER RIGHT NUMBER: 21-13069

Owner Type: Name and Address
Current Owner STATE OF IDAHO
DEPT OF PARKS AND REC STATEHOUSE MAIL
PO BOX 83720
BOISE, ID 83720-0065
(208)334-4199

Priority Date: 12/12/2007Status: ActiveSource:
WEST THURMON CREEK SPRINGTributary:
THURMON CREEK

<u>Beneficial Use:</u>	<u>From / To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
COMMERCIAL	01/01 to 12/31	0.040 CFS	
DOMESTIC	01/01 to 12/31	0.060 CFS	
FIRE PROTECTION	01/01 to 12/31	0.100 CFS	
	<u>Total Diversion</u>	0.100 CFS	

Location of Point(s) of Diversion:

WEST THURMON CREEK SPRING NESWSE Sec. 16, Twp 12N, Rge 42E B.M. FREMONT County

Place of Use:COMMERCIAL within FREMONT County

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12N	42E	35													X	X			
															L4				

DOMESTIC within FREMONT County

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12N	42E	26												X			X		
														L6			L7		
12N	42E	35			X					X					X	X			
					L3										L4				

FIRE PROTECTION within FREMONT County

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12N	42E	26												X			X		
														L6			L7		
12N	42E	35			X					X					X	X			
					L3										L4				

Conditions of Approval:

- 077 Water shall not be diverted for fire protection use under this right except to fight or repel an existing fire.

2. 106 Prior to the diversion and use of water under this approval, the right holder shall comply with applicable water quality permitting requirements administered by the Department of Environmental Quality, Department of Agriculture or the Idaho Department of Water Resources Stream Channel Alteration Program.
3. X01 Domestic use is for 2 homes, yurts, and restrooms in parking area.
4. 01H Prior to diversion of water under this right, the right holder shall install a lockable device, subject to the approval of the Department, in a manner that will provide the watermaster suitable control of the diversion.
5. Commercial use is for visitors center, park office and maintenance compound.
6. R05 Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 01.
7. 070 The irrigation occurring under this domestic use shall not exceed 1/2 acre.

Combined Use Limits: N/A

SubCase: N/A

Water Supply Bank: N/A

NARRATIVE PROPOSAL AT HARRIMAN STATE PARK

DOMESTIC AND COMMERCIAL USES:

- Domestic use is for 2-homes (park residences). The domestic system also provides drinking & culinary water for two restrooms at the Visitor parking area. Domestic drinking & culinary water is provided at the Park's Yurt campground. Commercial uses include the Visitor Center and Park Office containing public bathrooms & a drinking fountain. The maintenance area compound includes a shop restroom and three outside spigots, two of which provide water for two trailer pads for seasonal employees. The above uses include irrigation of up to 1/2 acre of associated landscaping.

FIRE PROTECTION:

- Fire protection hydrants are used throughout the domestic and commercial use areas.

SYSTEM DESCRIPTION:

- The West Thurman Creek Spring's new system connects to an existing system at a point approximately 2.75 miles from the source. The new pipeline begins at a point just south of the main Railroad Ranch compound and adds an additional 1.75 miles of pipeline for a total of approximately 4.5 miles. The old system has various size pipelines from the spring that follows the West Thurman Creek bed for approximately 1/2 mile, then head underground past Golden Lake to the Historic Railroad Ranch. See TOPO & MAP 4 OF 4.
- The new 2 inch mainline connects a visitor parking area that includes a public drinking fountain, two restrooms and a fire protection hydrant for that area. See POU MAP 3 OF 4.
- The mainline then heads southeast to Silver Lake, where the pipeline actually goes under the lake. Then it goes to the Yurt area campground, where a spigot provides drinking and culinary water. See POU MAP 2 OF 4.
- The line continues on to the park's maintenance area. Located here are various maintenance buildings and a shop with water for an employee bathroom. The line also connects to a fire hydrant in the compound and an outside spigot with two more spigots used for two seasonal employee trailer pads. The line continues to the home area where there is a fire hydrant and two domestic (park employee) homes. Then the line leaves the compound and goes to another fire hydrant and the Harriman Park Visitor Center and office. The Visitor Center has two public restrooms and a drinking fountain. See POU MAP 1 OF 4.
- The mainline then loops back to Silver Lake and ends. The overflow goes into Silver Lake. See MAP 2 OF 4.