

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 29-7570

Exam Date: 4/24/2014

1. Current Owner: HOT SPRINGS RANCH
PO BOX 185
DOWNEY ID 83234
(208)897-5736
2. Accompanied by: Brett Downs (Manager)

3. **SOURCE**

GROUND WATER

TRIBUTARY**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 29-2549 (Irrigation of 2 acres from ground water)
29-2491 (Domestic and Recreation from ground water)
29-13338 (Diversion from hot springs for use in pools)
2. Other water rights with the same point of diversion: 29-2549

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

GROUND WATER NE1/4NE1/4 Sec. 14, Twp 12S, Rge 37E, B.M. BANNOCK County

Method of Determination: GPS and aerial photos

2. **PLACE OF USE:** DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
12S 37E 12	<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>	
											X						

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
12S 37E 12	<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>	
											1.0						1.0

Total Acres: 1

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
12S 37E 12	<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>	
											X						

Method of Determination: Site visit and aerial photos

3. Well Tag No. = A0004379 and E0007772**Submersible pump: 7.5 hp pump, dynamic pumping level = 138 feet****D. FLOW MEASUREMENTS**

No measurement possible. Pump only kicks on for short bursts based on water levels in delivery pipe.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Assuming the parameters listed at the well site (and reported in the proof of beneficial use) and a delivery pressure of 0 psi (assuming open discharge into the delivery pipe), the well can produce 0.33 cfs. This matches the total diversion rate listed in the proof of beneficial use (0.33 cfs). License will be issued for 0.29 cfs (as described below).

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: 1 acre x 3.5 af per acre = 3.5 acre-feet

2. Volume Calculations for Other Uses:

Domestic Volume = 1 homes x 0.6 af per home (in-house culinary only) = 0.6 acre-feet

Recreation Volume = 5 acre-feet (see attached sheet)

G. NARRATIVE/REMARKS/COMMENTS

Water is diverted to Downata Resort for irrigation, domestic and recreation use. Existing water right 29-2549 already authorizes 2 acres of irrigation. Aerial photography shows approximately 3 acres irrigated at resort. License 29-7570 will be issued for 1 acre of irrigation. Irrigation water can be routed through swimming pools and two 7,000 gallon tanks before use. Recreation use covers RV park (39 spaces with water), campground spigots, snack bar, restrooms, showers, yurts, and cabins. Existing water right 29-2491 only covers recreation use to cool swimming pools. Domestic use is for one home. At one time there were three homes on the property. One has been converted to a rental and is covered under the recreation element of the right. One home has been removed from property and one home still exists. Water right 29-2491 already covers one domestic use, leaving one to be covered by this right. Ground water well was developed in a different QQ than is listed on the permit. Licensing amendment required.

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	0.040 CFS	0.60 AF
IRRIGATION	04/01 to 10/31	0.020 CFS	3.50 AF
RECREATION	01/01 to 12/31	0.230 CFS	5.00 AF
<u>Totals:</u>		0.290 CFS	9.10 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

James Cefalo

Date

May 16, 2014

Water Right 29-7570

Total Rate and Volume Demand

Instantaneous Demand

<u>Recreation Uses</u>	<u>Details</u>	<u>Assumptions</u>	<u>GPM</u>	<u>CFS</u>
Yurt Bathroom Bldg	2 sides: toilet, sink, shower in each	6 gpm per bathroom	12	0.03
11 Spigots	Spigots throughout resort area	2 gpm per spigot	22	0.05
39 RV Sites	60+ RV sites, 39 w/ H2O connections	2 gpm per connection	78	0.17
8 Cabins	Toilet, sink, shower in each cabin	6 gpm per bathroom	48	0.11
Main Office and Snack Bar	Sink and dishwasher	4 gpm combined use	4	0.01
Main Office Restrooms	M/W Toilet, sink, shower	6 gpm per bathroom	12	0.03
Dressing Room Showers	M/W 3 toilets, sinks, showers in each	18 gpm per area	36	0.08
Restroom & Showers	M/W 3 toilets and sinks, 1 shower	12 gpm per area	24	0.05
Campground Restrooms	Center of property - Mens / Womens	18 gpm per bathroom	36	0.08
		Total Demand	272	0.61

Number of People or Sites per Day

	<u>October - April</u>		<u>May - August</u>		
	<u>Weekday</u>	<u>Weekend</u>	<u>Weekday</u>	<u>Weekend</u>	<u>Gal</u>
Yurt Bathroom Bldg	0	2	2	15	34840
11 Spigots	0	0	30	40	25136
39 RV Sites	0	0	30	39	249171
8 Cabins	2	15	30	60	248950
Main Office and Snack Bar	20	40	100	150	68811
All Restroom/Showers	30	60	70	300	1012950
			Total		1639859
					AF
					0.1
					0.1
					0.8
					0.8
					0.2
					3.1
					5.0

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 29-7570
Reviewer: James Cefalo
Date of Review: 5/12/2014

P/D No.:	Senerio 1
PUMP HORSEPOWER	7.5
BOOSTER HORSEPOWER	0
PUMPING LEVEL	138
DISCHARGE PRESSURE	0
RATE OF FLOW (cfs)	0.33

The above calculates the formula = $Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$

Assumptions: %70 efficiency.
No Friction

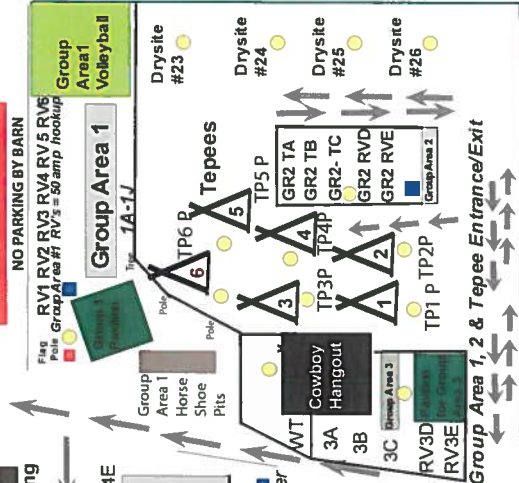
Examiners Notes: Water is pressurized by gravity. Pump is located on hillside, 130 feet above resort.
Assume open discharge into pipe. Pumping regulated by water levels in the pipe.

ATV riding on Back Downata Rd. (County Road)

*DO NOT RIDE OFF THE ROAD - RIDING IN FIELDS IS TRESPASSING



Barn



CABINS & YURTS OPEN YEAR ROUND

Small Cabins & Yurts sleep up to 4 people. Includes queen bed, futon, fridge, microwave, TV
Large Yurt 4 - Sleep 12 people in bunk beds Includes fridge, TV and Microwave, & bedding.

Cabins 4, 5, 6, sleep up to 6 people. Includes a queen bed, futon, 2 twin beds in loft, small kitchen with stove, fridge, microwave, TV

Bunk House (Cabin 7) sleeps up to 6 people TV, Dishnet, gas grill, queen bed, sofa sleeper, full bed, kitchen, 1 bath, fire pit, up to 3 tents (\$15/tent)
Ranch House (Cabin 8) sleeps up to 12 people Includes 2 bedrooms with a queen bed, sofa sleeper, bedroom with 3 full size beds, kitchen, 2 baths, fire pit, TV with Dishnet, volleyball, gas grill, foosball & more

Hadley House (Cabin 9) sleeps up to 18 people Includes 10 guests in house, up to 8 in great room

House includes master bedroom with private jetted tub, 2 baths, kitchen, three bedrooms upstairs and large great room. Great room includes large screen T.V. DVD player, Wii game player, backyard grill, fire pit and more.

Tent camping and two RV 30 AMP Campsites available. Group tenting & RV fee charged.

Tees include 4 cots and electricity.

Cowboy Hangout includes 8 cots and electricity

Campground - water available April thru October

Campground - water available April thru October

RV Site Size: *50 amp sites rated for 40 feet 20/30 amp rated for 32 feet
Sites #30, #40 through #49 are rated for 40 feet & are pull through sites

STOP To Register

Utility/Cargo Trailers & Extra Vehicle Parking

Map Symbols

= Fire Pit = Charcoal
Grill X = Door = Water

Downata Road

From Hwy 91

Firewood For Sale
We ask you do not bring in your own wood.
Help us keep our trees in our State & campground healthy & disease free!

Camp Host

Picnic Day

Parking

NO Overnight Parking

Pool Day

Day

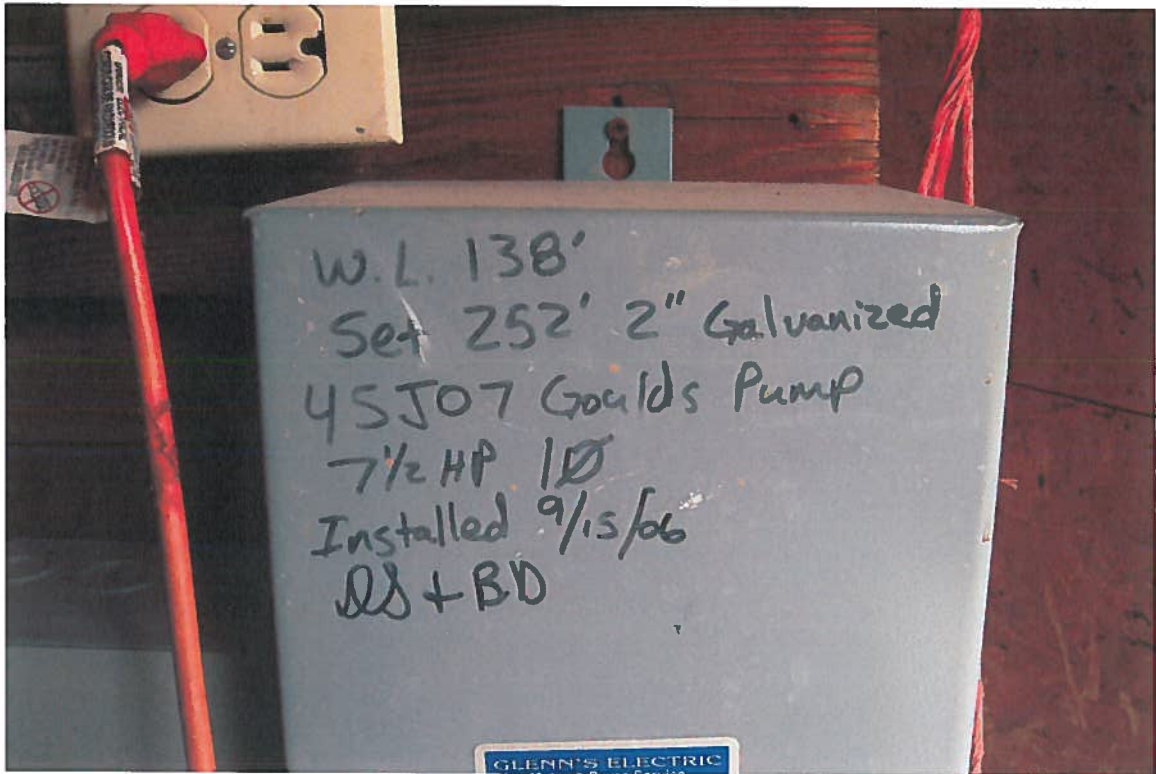
Parking

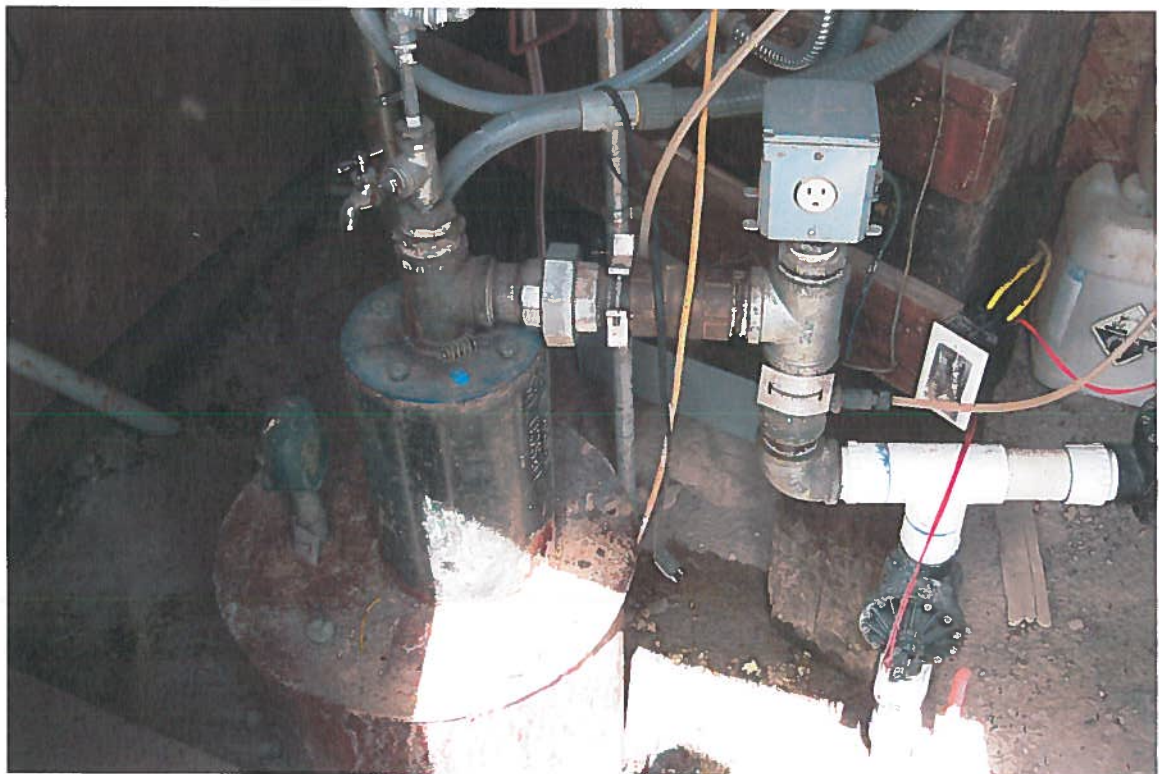
Proposed Future Mountain Bike Trails

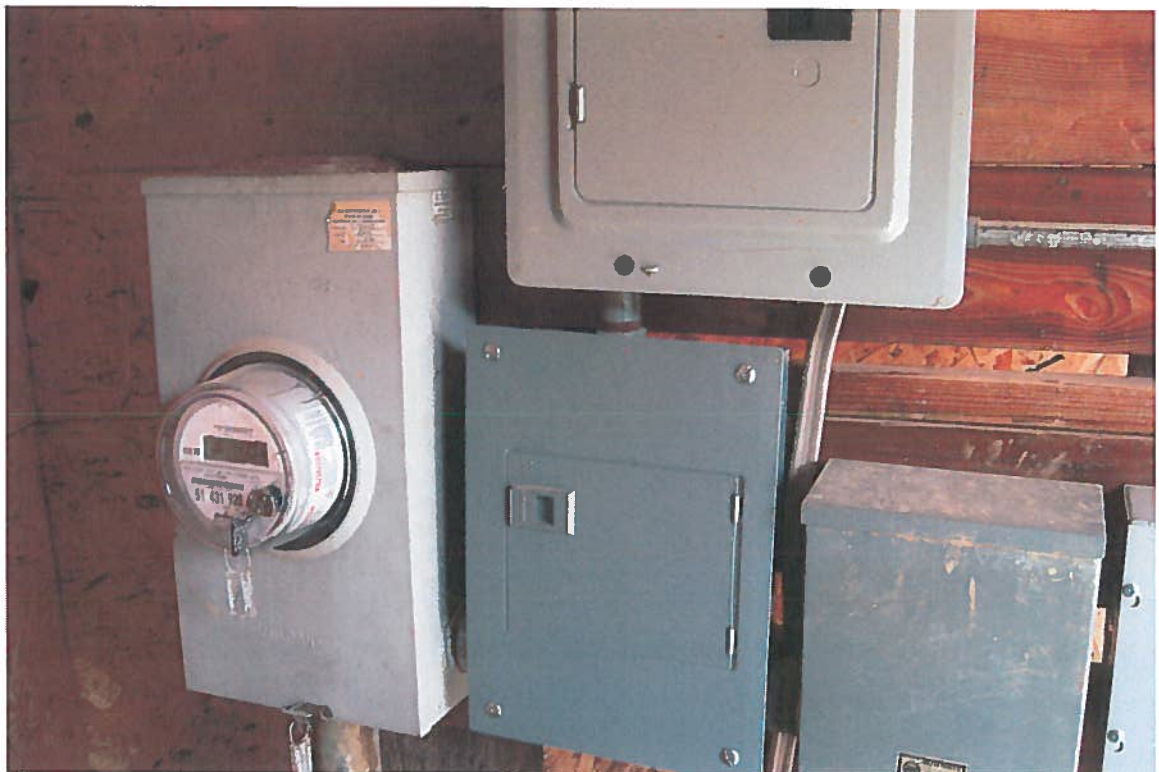
Pool

Day

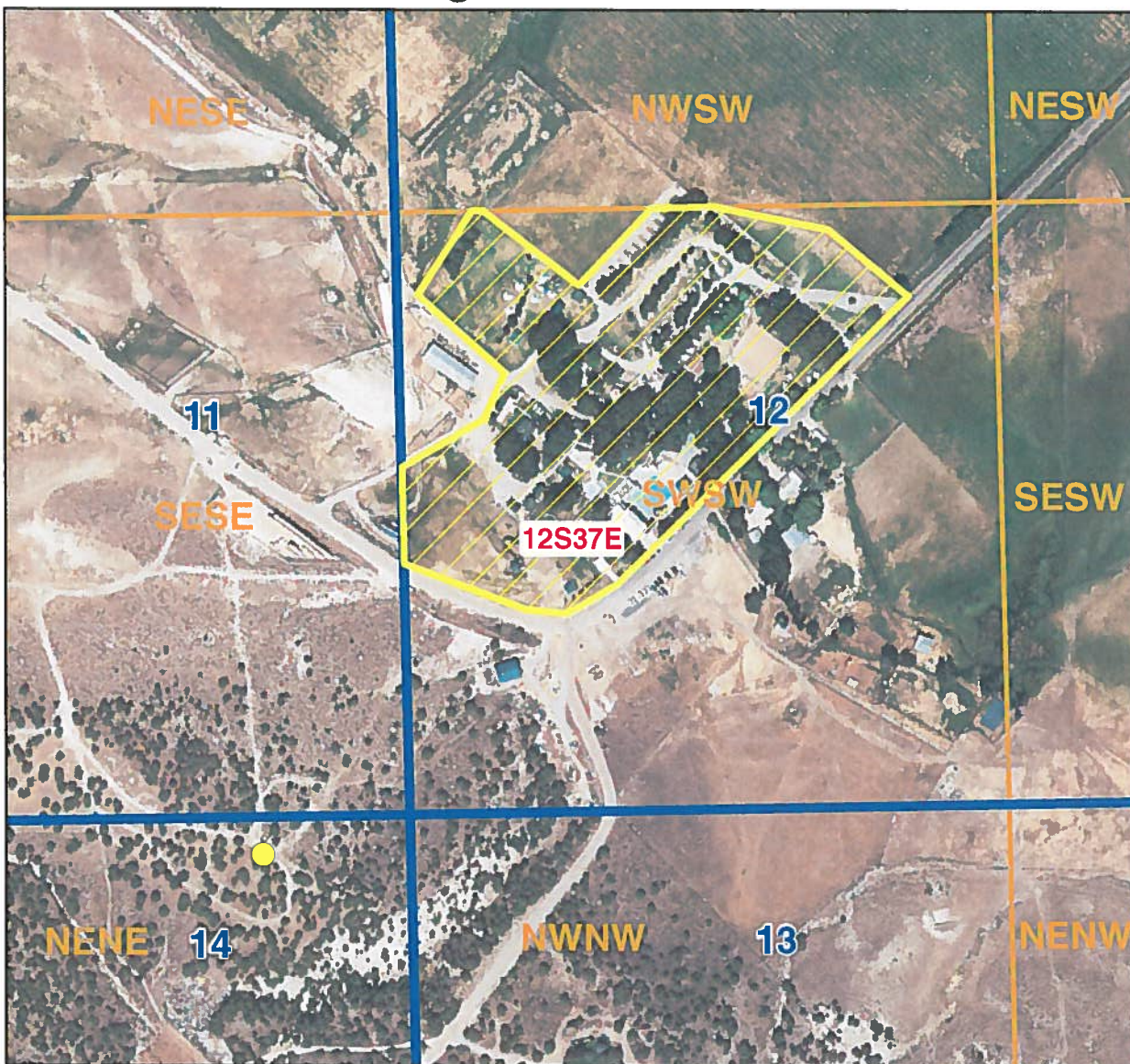
Parking







Water Right License 29-7570



2013 Aerial Photography

