

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-21719

Exam Date: 09/21/2017

1. Current Owner:
WILD WEST INC 525 RIVERSIDE AVE LYNDHURST NJ 07071 (917) 859-8959
2. Accompanied by: Cresley McConnell
Phone No: 208 420-0295
Address: N/A
Relationship to Permit Holder: Building caretaker

3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

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

GROUND WATER NW¼NW¼ Sec. 13, Twp 05S, Rge 17E, B.M. LINCOLN County

Method of Determination: Garmin GPS and aerial imagery

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05S	17E	13						X											

Method of Determination: Garmin GPS and aerial imagery

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

 X Indicate weir size/pipe as applicable. X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater. X Aerial Photo Attached (required for irrigation of 10+ acres). X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0043587					

*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

2. Measurements: N/A: A diversion rate measurement was not made per rule 035 section 01 sub-section r item iii (less than 0.24 cfs) in the IDAPA 37.03.02 Beneficial Use Exam Rules (03/29/2012).

E. FLOW N/A Additional Computation Sheets Attached**CALCULATIONS**

Measured Method: N/A (see above)

F. VOLUME CALCULATIONS

- ### 1. Volume Calculations for Irrigation: No irrigation component

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = N/A$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{N/A}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = N/A$$

2. Volume Calculations for Other Uses: Please see attached sheet

G. NARRATIVE/REMARKS/COMMENTS

Wild West Inc. 37-21719

The application for permit 37-21719 was received by IDWR on March 22, 2006. Permit 37-21719 was approved on 06/15/2006. Multiple extensions were filed and proof of beneficial use was received on May 31, 2016.

Permit 37-21719 is for 0.11 cfs from ground water for domestic use in connection with 25 retail businesses (five separate buildings) with each business being limited to 0.04 cfs and 2500 gallons per day.

On September 21, 2017 I performed a field exam accompanied by the building caretaker Cresley McConnell. The place of use development consists of a single building containing 5 stubbed-in retail spaces of approximately 2000 sq. ft. each with each containing a restroom. There are also two public restrooms with three stalls and three sinks.

The POD is an 8 inch diameter well head (tag number D0043587) located in the NWNW Sec13, Twp 05S, Rge 17E. The well provides water for domestic-use and fire protection for the five retail spaces. The locked well house contains a pressure tank, valves, flow-meter and electrical service. There is a fire hydrant several yards from the well house that is available for local, state, and federal fire suppression activities.

I recommend licensing water permit 37-21719 with no irrigation uses of any kind (per condition WB5 on permit) for five retail businesses for a total maximum diversion rate of 0.04 cfs and 9800 gallons per day.

Have conditions of permit approval been met? X 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	0.04 CFS	11.0 acre feet
	<u>Totals:</u>	0.04 CFS	11.0 acre feet

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 ☒ X None

I. AUTHENTICATION

Field Examiner's Name John L. N Date 12/20/2017

Reviewer _____ Date _____

37-21719

Volume Calculations

Field Exam

5 retail spaces at approx. 2,000 sq. ft. each
 It can be divided into 10 retail spaces of 916 sq. ft.
 Each 2,000 sq. ft. retail space has one toilet facility

$$5 \text{ toilet facilities} \times 400 \text{ gpd} = 2,000 \text{ gpd}$$

$$2 \text{ public toilet facilities (3 toilets each)} = 2400 \text{ gpd}$$

$$1 \text{ developed coffee shop with 30 person seating capacity;} \\ \text{estimated 150 customers per day @ 12 gallons per person} \\ = 1800 \text{ gpd}$$

$$1 \text{ partially developed restaurant with 61 person seating} \\ \text{capacity; estimated 300 customers per day @ 12 gallons} \\ \text{per person} = 3600 \text{ gpd}$$

$$\begin{array}{r} 2,000 \text{ gpd} \\ 2400 \\ 1800 \\ 3600 \\ \hline \end{array}$$

$$9800 \text{ gpd} \times 365 \text{ days} = 3,577,000 \div 325,850$$

$$= 11 \text{ acre ft. per year}$$

$$9800 \text{ gpd}$$

Wild West Calculations

- Five retail spaces of 2,000 sq. feet each
- Each retail space has one restroom stubbed in
- Five toilet facilities x 400 gpd = 2,000 gpd
- Two public restroom facilities (three toilets each) = 2400 gpd
- One developed coffee shop with 30 person seating capacity; estimated 150 customers per day @ 12 gallons per person = 1800 gpd
- One partially developed restaurant with 61 person seating capacity; estimated 300 customers per day @ 12 gallons per person = 3600 gpd
- 2,000 gpd + 2400 gpd + 1800 gpd + 3600 gpd = 9800 gpd
- 9800 gpd x 365 days = 3,577,000/325,850 = 11 acre feet per year

Water Use Information

The ability to calculate the typical amount of water needed for a specific task is important in water management planning. Water rights are limited to the quantity of water that can be beneficially used. Here are some water use standards used by IDWR to evaluate water right applications and claims. Typically, applicants and claimants seeking more than these amounts are asked for supplemental documentation explaining the need for more water.

cfs (cubic foot per second) = 448.8 gallons
per minute
AF (Acre Foot) = 325,851 gallons

STOCK WATERING

Cattle, Other Than Dairy - 12 gallons per day
per cow

Dairy Cattle - 35 gallons per day per cow

Horses - 12 gallons per day per horse

Mules - 12 gallons per day per mule

Hogs - 4 gallons per day per hog

Goats - 2 gallons per day per goat

Sheep - 2 gallons per day per sheep

Chickens - 5-10 gallons per day per 100 chickens

Turkeys - 10-18 gallons per day per 100 turkeys

OTHER COMMON USES

Hotels with private bath (two persons per
room) - 60 gallons per room per day

Motels with bath - 40 gallons per day per bed
space

Hospitals - 250-400 gallons per day per bed

Swimming pools - 10 gallons per day per
swimmer

Picnic grounds with bathhouses, showers, &
flush toilets - 20 gallons per day per person

Restaurants with bar/lounge, toilet facilities -
9-12 gallons per day per patron

Schools (day) with cafeteria, gym and showers
- 25 gallons per day per student

Schools (boarding) - 75-100 gallons per day per
student

DOMESTIC USE DIVERSION RATES

These figures show diversion rates typical for in-house domestic use. These figures do not include water for domestic stockwater or lawn and garden irrigation. Applicants seeking to divert water in excess of these rates for in-house domestic use should provide information explaining why the additional quantity is needed.

1 Household - 0.04 cfs

2 Households - 0.06 cfs

3 Households - 0.08 cfs

4 Households - 0.10 cfs

10 Households - 0.15 cfs

20 Households - 0.20 cfs

30 Households - 0.25 cfs

40 Households - 0.30 cfs

50 Households - 0.33 cfs

Churches - 5 gallons per day per person

Service Stations - 10 gallons per day per vehicle

Stores - 400 gallons per day per restroom

Airports - 3-5 gallons per day per passenger

Irrigation - A total diversion of 0.02 cfs per acre irrigated, unless the applicant or claimant can demonstrate that more is required. For irrigated tracts of 5 acres or less, no additional justification is required for up to 0.03 cfs per acre. For irrigation of public spaces, such as parks and school grounds, IDWR will authorize a diversion rate of 0.02 cfs per acre times 24 divided by the number of hours irrigation actually occurs each day. For example, a park irrigated for 8 hours overnight could divert up to 0.06 cfs per acre.

(from Old Field Examination Guide)

Table 3

NON-IRRIGATION WATER REQUIREMENTS

Types of Establishments	<u>Gallons/day</u>
Airports (per passenger)	3-5
Apartments, multiple family (per resident)	60
Bathhouses (per bather)	10
Camps:	
Construction, semi-permanent (per worker)	50
Day with no meals served (per camper)	15
Luxury (per camper)	100-150
Resorts, day & night, limited plumbing (per camper)	50
Tourist, central bath & toilet facilities (per person)	35
Cottages with seasonal occupancy (per resident)	50
Courts, tourist with individual bath units (per person)	50
Clubs:	
Country (per resident member)	100
Country (per non-resident member)	25
Dwellings:	
Boardinghouses (per boarder)	50
Kitchen requirements (per boarder)	10
Multiple family apartments (per resident)	40
Roominghouses (per resident)	60
Single family (per resident)	50-75
Estates (per resident)	100-150
Hotels:	
With private baths (2 persons/room)	60
Without private baths (per person)	50
Hospitals (per bed)	250-400
Institutions other than hospitals (per person)	75-125
Laundries (per washing/customer)	50

FOR 37-21719
FIELD EXAM

Livestock (per animal):

Cattle (range)	12
Cattle (dairy)	35
Goat	2
Hog	4
Horse	12
Mule	12
Sheep	2

Chickens (per 100)	5-10
Turkeys (per 100)	10-18

Motels:

With bath, toilet & kitchen facilities (per bed)	50
With bed & toilet (per bed)	40

Parks:

Overnight with flush toilets (per camper)	25
Trailers with individual bath units (per camper)	50

Picnic:

With bathhouses, showers & flush toilets (per picnicker)	20
With toilet facilities only (per picnicker)	10

Restaurants:

With toilet facilities (per patron)	7-10
Without toilet facilities (per patron)	3
With bars & cocktail lounge (additional per patron)	2

Schools:

Boarding (per pupil)	75-100
Day with cafeteria, gyms & showers (per pupil)	25
Day with cafeteria, no gyms or showers (per pupil)	20
Day without cafeteria, gym or showers (per pupil)	15

Service stations (per vehicle)	10
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Stores (per toilet room)	400
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Swimming pools (per swimmer)	10
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Theaters:

Drive-in (per car space)	5
Movie (per auditorium seat)	5

Workers:

Construction (per person/shift)	50
Day (per person/shift)	15

Table 4

TABLE OF EQUIVALENTS

1 Cubic Foot per Second	= Amount of water required to cover one acre with one inch of water in one hour = 2 acre-feet in 24 hours = 448.8 (450) gallons/minute = 7.48 gallons/second = 50 miners inches
1 Cubic Foot	= 7.48 gallons = 62.4 pounds = 1728 cubic inches
1 Idaho Miner's Inch	= 9 gallons/minute = 0.02 cfs
1 Gallon	= 231 cubic inches = 8.33 pounds
1 Gallon per Minute	= 0.00223 cfs = 1440 gallons in 24. hours
1 Acre Foot	= Amount of water required to cover one acre one foot deep = 1 cfs flowing for 12 hours = 43,560 cubic feet = 325,850 gallons = 12 acre-inches
1 Section	= 640 acres = 1 mile square
1 Quarter ($\frac{1}{4}$) Section	= 160 acres
1 $\frac{1}{4}\frac{1}{4}$ Section	= 40 acres
1 $\frac{1}{4}\frac{1}{4}\frac{1}{4}$ Section	= 10 acres



37-21719 POU

Above: Front of retail spaces.

Below: Rear of retail spaces.

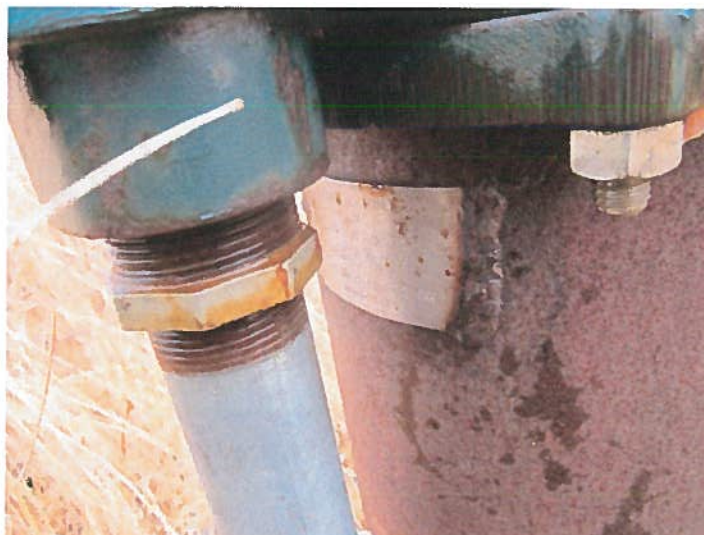




37-21719 POD

Above: Well head, locked well house, and power supply.

Below: Well head with tag number D0043587



Flow meter



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Above: Pressure tank and flow meter

Below: Stub-in

Retail spaces



From well



Two inch copper supply line

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Above and below: Water supply from well going to the fire protection system. The two inch copper pipe in lower center of the photos is the supply for the five retail spaces.



Two inch copper supply line



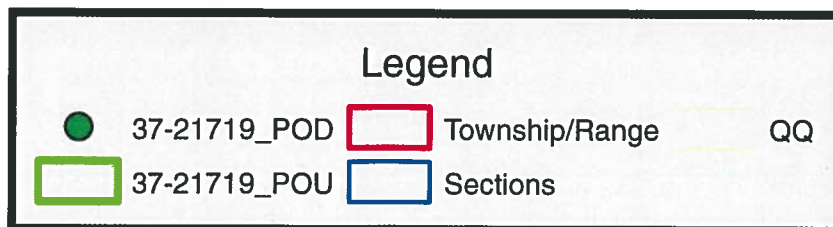
Current development of retail spaces



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Legend

- | | | |
|--|--|--|
|  Active Water Right POD |  Township/Range |  QQ |
|  37-21719_POD |  Sections | |
|  37-21719_POU | | |

