

IN-OFFICE BENEFICIAL USE FIELD REPORT

Permit No. 63-33469

Date: 6/22/2016

Examiner: Michele Edl

Name/Address Same as permitted Taxlot: confirmed as POU S.O.S. record N/A
Source Ground water
Nature of Use Irrigation
Season of Use 3/1-11/15
Point of Diversion well tag A0013248; Spatial data pt 115909
Place of Use NESE sec 29, T5N, R1E a.k.a. lot 2, block 2 Stillwell Estates #1
Overlap Review POD Right(s) 63-32486 domestic and stockwater
Worksheet Attached ☐ POU Right(s) 63-32486 domestic and stockwater

Diversion Rate

Permitted Rate 0.11 cfs BU Fee Limit 0.2 cfs BU Standard Limit 0.04 cfs
1.2 ac x 0.03 cfs/ac = 0.036 cfs

Recommended Total Div Rate 0.04 cfs

Annual Volume

for Irrigation: $\frac{0.036 \text{ cfs} \times 1.9835 \times 260 \text{ days}}{1.2 \text{ acres} \times 4.5 \text{ af/ac (FHR)}} = \frac{18.6}{5.4} \text{ af}$

Recommend smaller of two volumes = 5.4 af

for other uses: NA

Recommended Amounts

Beneficial Use	Season of Use	Diversion Rate	Annual Volume
Irrigation	3/1-11/15	0.04	5.4

Totals 0.04 cfs 5.4 af

Amendments Required ☐ Change P.D. ☐ Add P.D. ☒ None
☐ Change P.U. ☐ Add P.U. ☐ Other: _____

Conditions:

Permit condition 8 was incorrect. It should have stated 0.03 cfs not 0.02 cfs.
Groundwater restricted area condition was met.

Remarks:

Called permit holder on 6/21/2016. Confirmed that: 1) this well is the same well as the well-POD for their domestic & stockwater right (63-32486); 2) a single 5HP pump provides for both rights; 3) the cleared area north and northeast of the home was originally intended to be irrigated but is not because their plans changed. The irrigation is provided by a pressured system of pop-up heads.

Workflow

Exam Date Entered ☒
POU/POD shapes ☒
Combined Rights Entry ☒
Wild & Scenic Entry ☐
Draft License and Map ☒

Supporting Documents

Historical Imagery ☒ Well Log ☒ in the file
Photographs ☐ Diagrams ☐
LandSat ☐ Theoretical ☒
Other: _____

1	THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)				
2					
3	Water Right No.:	63-33469			
4	Reviewer:	Michele Edl			
5	Date of Review:	6/23/2016			
6					
7					
8	P/D No.:	Senerio 1	Senerio 2	Senerio 3	
9					
10	PUMP HORSEPOWER	5	5	5	
11	BOOSTER HORSEPOWER	0	0	0	
12					
13	PUMPING LEVEL	300.0	300.0	300.0	
14					
15	DISCHARGE PRESSURE	35	45	55	
16					
17	RATE OF FLOW (cfs)	0.08	0.08	0.07	0.08
18					
19					
20					
21	The above calculates the formula =	$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$			
22					
23					
24	Assumptions:	% 70 efficiency			
25		No Friction			
26					
27	Examiners Notes:				
28	Horsepower was given by the applicant. Lift was estimated from the well log. Discharge pressure ranges from 35-55 psi to account for expected system in use.				
29					
30					
31					
32					
33					



POD 63-33469 & 63-32468

POU 63-33469