

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

**Permit No:** 63-34597  
**Exam Date:** 02/28/2020

1. Current Owner:  
DENNIS TURNER 2558 WILLIAMS LN HOMEDALE ID 83628
2. Accompanied by: Owner, Patrick Kelly  
Phone No: (208) 573-8991  
Address: 21751 Arena Valley Rd, Wilder, ID 83676  
Relationship to permit Holder: Owner

3. **SOURCE:**  
GROUND WATER

**Method of Determination:** Site visit

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
63-20879	Ground Water	Stockwater	Decreed
63-23645	Ground Water	Stockwater	Decreed
63-33747	Ground Water	Stockwater	License

Comments: POU overlap present

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
63-20879	Ground Water	Stockwater, Domestic	Decreed
63-20887	Ground Water	Domestic	Decreed
63-33747	Ground Water	Stockwater, Commercial	License

Comments: POD overlap present

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼ SE¼, Sec. 13, Twp 04N, Rge 06W, B.M. CANYON County  
GROUND WATER NE¼ SE¼, Sec. 13, Twp 04N, Rge 06W, B.M. CANYON County

Method of Determination: Aerial imagery, digital PLSS map, site visit

**PLACE OF USE:** STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	06W	13				X									X			X	

Method of Determination: Aerial imagery, digital PLSS map, site visit

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
Well 1		5			2" line, variable speed pump
Well 2		2			2" line

**D. FLOW MEASUREMENTS**

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
n/a	n/a	n/a	n/a	n/a	n/a	n/a

2. Measurements: Measurements were not taken during this exam.

**E. FLOW CALCULATIONS**           Additional Computation Sheets Attached

Measured Method:

System capacity is 0.21 cfs as determined by agent Cody Parker during field exam for water right no. 63-33747 for same diversion system.

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation: No irrigation

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

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = n/a$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = n/a$$

2. Volume Calculations for Other Uses:

Stockwater volume limited to 800 dairy cattle which, according to AP Memo no. 3, has a maximum of 32.0 afa. This is the volume that is recommended for licensing.

**G. NARRATIVE/REMARKS/COMMENTS**

This permit authorizes the diversion of 0.21 cfs of groundwater for stockwater use for an existing dairy operated by Dennis Turner within Canyon County. According to a preliminary order reinstating the permit, proof of beneficial use was submitted with the permit application on August 6, 2018. The proof was submitted with an insufficient license examination fee, with the remainder being paid on December 16, 2019. This resulted in the advancement of the permit's priority date to September 20, 2018 according to an order issued by Angela Grimm on December 18, 2019. The field exam was completed by myself and Patrick Kelly on February 28, 2020.

According to the application for permit, this permit is not intended to add additional rate, but rather add the additional annual volume required to water 800 additional dairy cattle. Water rights 63-33747 and 63-20879, also owned by Mr. Turner, combine to authorize a total of 1,700 dairy cattle from the same diversion system as this permit. During the field exam for water right no. 63-33747, a total of 2,500 dairy cattle were verified being watered according to agent Cody Parker. Therefore, this permit legitimizes the 800 additional dairy cattle being watered at the dairy. The total number of 2,500 dairy cattle was confirmed with Mr. Turner during this site visit.

The two points of diversion are existing wells, neither equipped with a metal tag, with 2" lines emitting from them, therefore a measurement was not able to be taken. The lines are connected and supply water to troughs equipped with float valves. One well has a 5 hp variable speed pump and the other has a 2 hp pump. According to theoretical estimates done by agent Cody Parker, the total system capacity is 0.21 cfs.

Rights 63-33747, 63-20887 and 63-20879 are overlapping rights diverting from the same wells as this permit. These rights authorize a combined diversion rate of 0.21 cfs and therefore this right will be conditioned to match that combined limit. According to Admin Memo no. 3, the annual acre feet of volume for 800 head of dairy cattle is 32.0 af, and that is the volume recommended for licensing.

The place of use includes the milking barn and two adjacent fields. All locations were observed with evidence of stockwater use, and no changes are recommended.

Mr. Turner has run the dairy for a number of years, and owns and operates several other dairies in the area. There is no reason to believe he is out of compliance with Department of Environmental Quality or Department of Agriculture permitting requirements. Therefore, the condition requiring such on the permit has been removed for licensing.

Have conditions of permit approval been met? ☒ Yes ☐ No

**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
STOCKWATER	01/01 to 12/31	0.21 CFS	32.0 AF

**Totals:** 0.21 CFS 32.0 AF

**2. Recommended Amendments**

\_\_\_\_ Change P.D. as reflected above    \_\_\_\_ Add P.D. as reflected above    X None

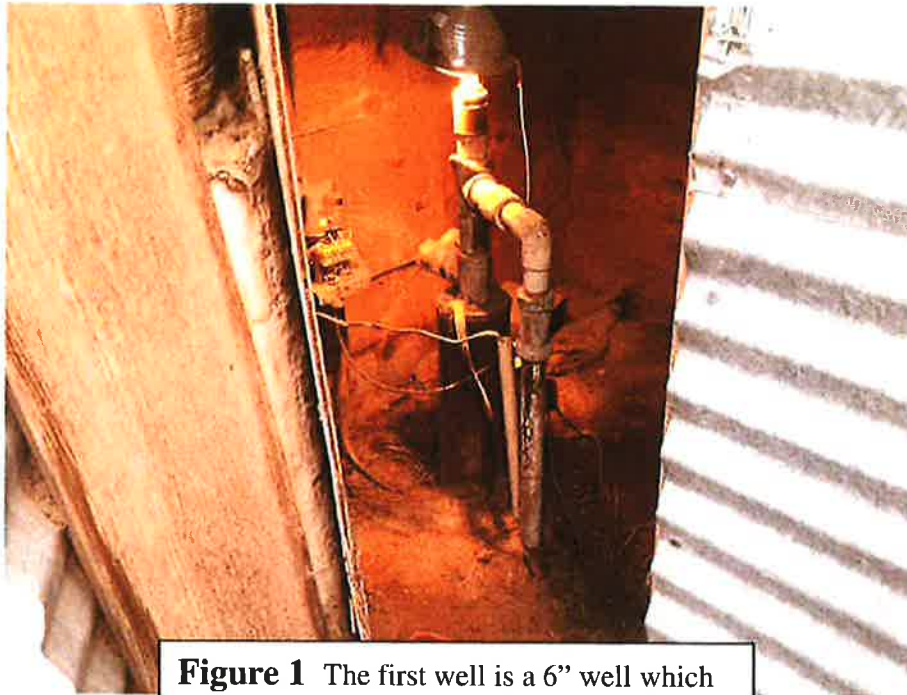
\_\_\_\_ Change P.U. as reflected above    \_\_\_\_ Add P.U. as reflected above    X None

**I. AUTHENTICATION**

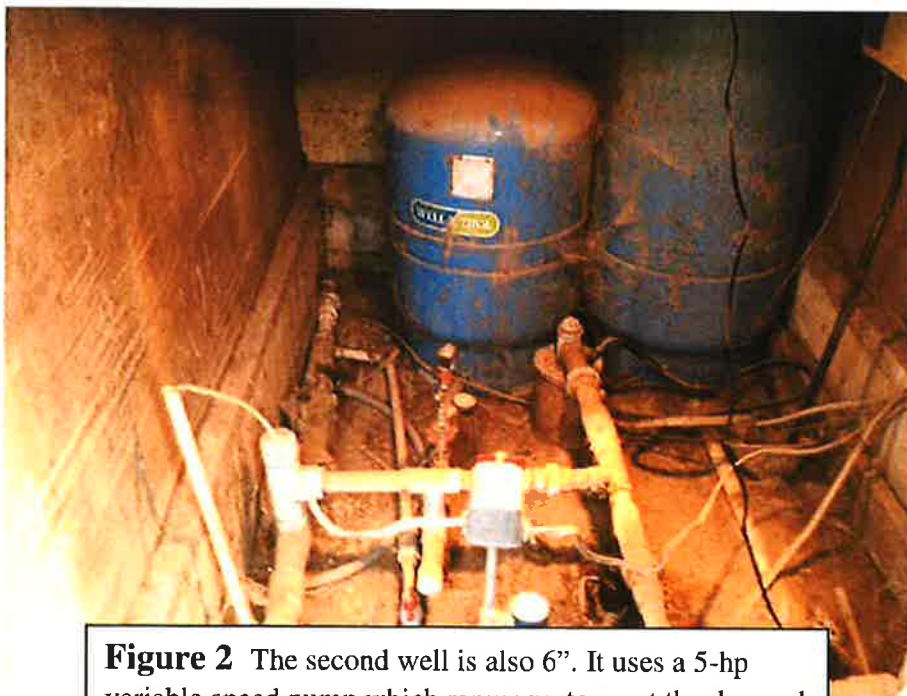
Tyler Smith - Water Resource Agent

Field Examiner's Name  Date 3/4/2020Reviewer  Date 3-5-2020

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Picture Attachment



**Figure 1** The first well is a 6" well which uses a 2-hp pump to divert water through a 2" mainline at 70 psi.



**Figure 2** The second well is also 6". It uses a 5-hp variable speed pump which ramps up to meet the demand if it cannot be met by the first well shown above.

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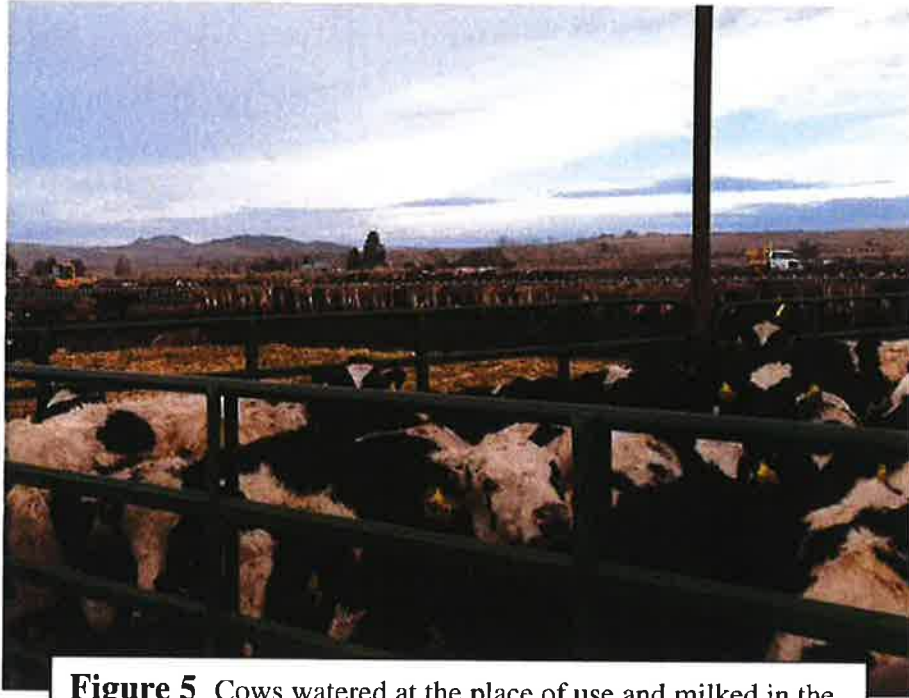
**Figure 3** The system pressure for the dairy is held at 70 psi. Both wells are connected to the same system to the pressure is equal for both.



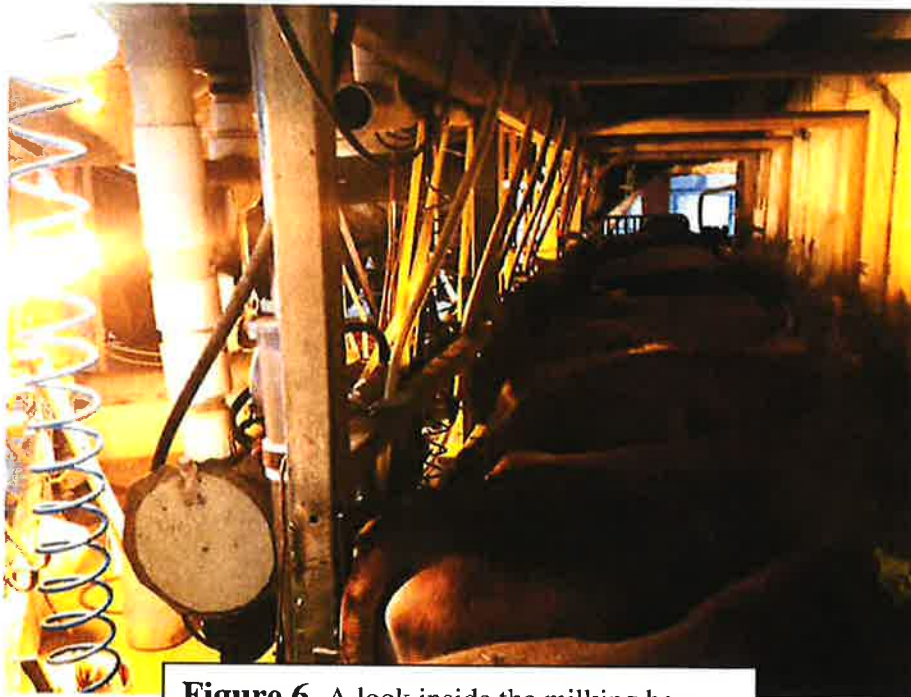
**Figure 4** Troughs used to water livestock located throughout the place of use. The troughs are filled using a float system.



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**Figure 5** Cows watered at the place of use and milked in the barn under the commercial use component of the permit.



**Figure 6** A look inside the milking barn.

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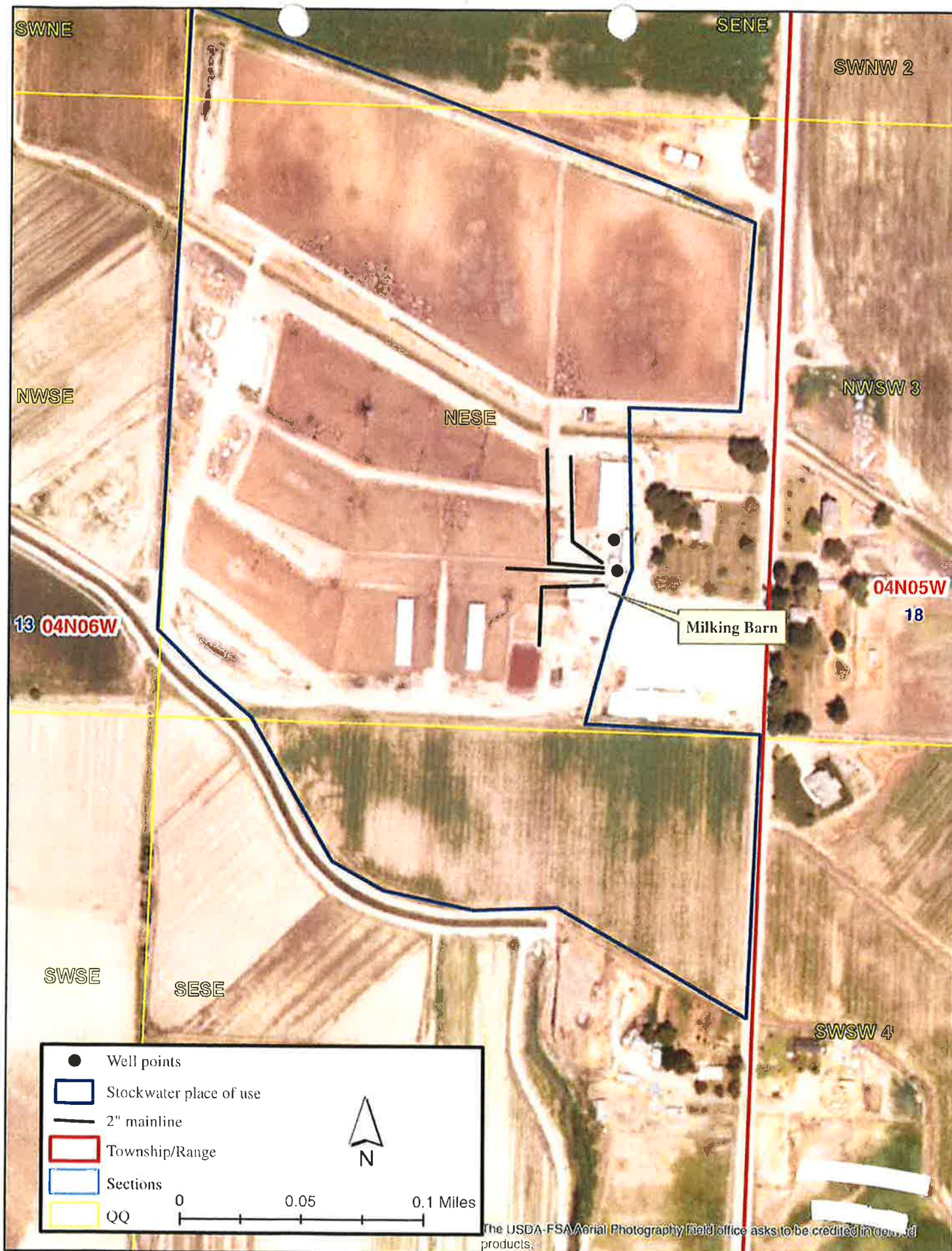


**Figure 7** 3 tanks add up to 10,500 gallons of milk storage inside the barn.



**Figure 8** 11 of these faucets are located throughout the property to be used for stockwater and commercial uses.





## Beneficial Use Field Exam

Basin/eq	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-20879	RENFRO, DAN	GROUND WATER													X				
63-20887	RENFRO, DAN	GROUND WATER													X				
63-20890	RENFRO, DAN	GROUND WATER	X																
63-21582	JOHNSON, PA	GROUND WATER		X															
63-22010	PAGE, CLARE	GROUND WATER					X												
63-22060	CASE, LILY M.	GROUND WATER							X										
63-22061	CASE, LILY M.	GROUND WATER							X										
63-23143	CARVER, KAT	GROUND WATER		X															
63-23144	CARVER, KAT	GROUND WATER														X			
63-23645	MARSH, DAV	GROUND WATER															X		
63-26609	TARR, HOWA	GROUND WATER		X															
63-26945	ATEN, DONNA	GROUND WATER														X			
63-27081	COLLORD, EV	GROUND WATER						X											
63-32533	ATEN, BILL, A	CASE DRAIN		X															
63-32534	ATEN, BILL, A	CASE DRAIN		X															
63-33252	BAKER ROSE	EAST ARENA DRAIN		X															
63-33747	RENFRO, DAN	GROUND WATER													X				
63-34597	TURNER, DEN	GROUND WATER													X				

= Overlap

= This Right



## Department of Water Resources

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Basin/Seq	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-20879	RENFRO, DA	GROUND	STOCKWATER													X				
63-22060	CASE, LILLY M	GROUND	STOCKWATER								X									
63-23143	CARVER, KA	GROUND	STOCKWATER			X														
63-23144	CARVER, KA	GROUND	STOCKWATER														X			
63-23645	MARSH, DA	GROUND	STOCKWATER															X		
63-26609	TARR, HOW	GROUND	STOCKWATER		X															
63-26945	ATEN, DON	GROUND	STOCKWATER														X			
63-32533	ATEN, BILL; CASE DRA	STOCKWATER				X														
63-33747	RENFRO, DA	GROUND	STOCKWATER				X									X			X	
63-34597	TURNER, DE	GROUND	STOCKWATER				X									X			X	

= Overlap

= This Right