

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23044
Exam Date: 09/09/2019

1. Current Owner:
US DEPT OF INTERIOR BUREAU OF RECLAMATION
1150 N CURTIS RD STE 100 BOISE ID 83706-1234
2. Accompanied by:
Phone No: GAIL MCGARRY
Address:
Relationship to permit Holder: Program Manager, BOR

3. **SOURCE:**
GROUND WATER

Method of Determination: Well driller report in field exam report

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Comments: _____

2. Other water rights with the same point-of-diversion: NO Overlap

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER L5 (SE¼ SE¼), Sec. 32, Twp 16N, Rge 03E, B.M. VALLEY County

Method of Determination: GPS, digital PLS map

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
16N	03E	32																X L5	

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
16N	03E	32																5.2 L5	5.2

Total Acres: 5.2

Method of Determination: Aerial imagery, digital PLS map

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
370582	UNKNOWN				

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Bucket						

2. Measurements:

IRRIGATION

1 spigot took 53 seconds to fill a 5-gallon bucket = 5.7 gpm x 10 spigots = 57 gpm = 0.12 cfs max diversion

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

IRRIGATION

See measurement above

DOMESTIC

4 flush toilets @ 4 gpm per = 16 gpm ~ 0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5.2 \text{ acres} \times 3.0 \text{ afa/acre} = 15.6 \text{ afa}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.10 \text{ cfs} \times 200 \text{ days} \times 1.9835 = 39.7 \text{ afa}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 15.6 \text{ afa}$$

2. Volume Calculations for Other Uses:

Domestic 0.6 afa per Admin AP Memo 22

G. NARRATIVE/REMARKS/COMMENTS

This permit was approved on March 20, 2007 authorizing the diversion of up to 0.10 cfs from ground water for irrigation and domestic use. Proof of beneficial use was submitted on March 1, 2012. I completed this field exam on September 9, 2019 accompanied by US Bureau of Reclamation staff.

The point of diversion is a six-inch well which was drilled to a depth of 90 ft. The well provides water for 10 to 12 spigots and to a bathroom which has four flush toilets. The campground is irrigated using hoses from the spigots which are attached to movable sprinklers. The BOR staff that accompanied me did not know how many sprinklers ran at once, but they suspected that all ten spigots were used at one time at some point during the season. I measured the diversion rate from one spigot using a bucket test. The diversion rate was 0.013 cfs (5.7 gpm). So, the total instantaneous irrigation rate would be 0.13 cfs. The permit limits the rate to 0.10 cfs, which is the rate I have recommended.

The bathroom facilities contain both a men's and a women's bathroom. Each has two toilets. According to the field examiner's handbook, a toilet can require up to 4-5 gpm. At 4 gpm the total diversion rate is 16 gpm or 0.04 cfs which matches the permit. 0.04 cfs is the domestic diversion rate I have recommended.

There are no overlapping irrigation or domestic uses associated with the campground. There are multiple domestic use rights in the same QQ but those all belong to private landowners, and likely refer to the properties to the west of W. Mountain Rd.

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>
DOMESTIC	01/01 to 12/31	0.04 CFS	0.6 AF
IRRIGATION	04/15 to 10/31	0.10 CFS	15.6 AF

Totals: 0.10 CFS 16.2 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

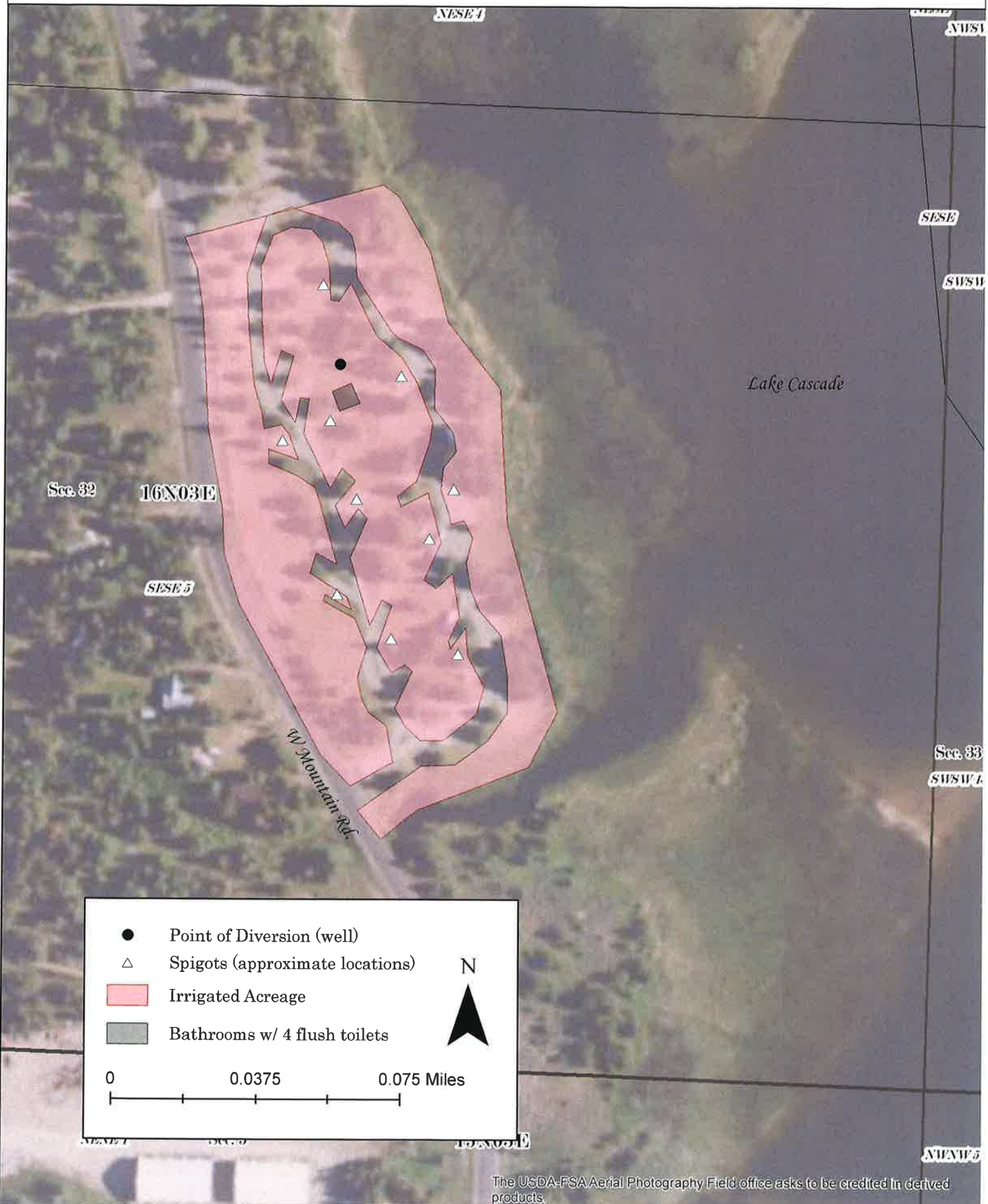
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

Cody Parker - Water Resource Agent, Senior

Field Examiner's Name Cody Parker Date 10-17-2019

Reviewer Jamie Wilson Date 10-17-2019



State of Idaho
Department of Water Resources
Beneficial Use Field Report
65-23044

IRRIGATION



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.035 0.07 0.14 Miles



State of Idaho
Department of Water Resources
Beneficial Use Field Report
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DOMESTIC



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.035 0.07 0.14 Miles



STATE OF IDAHO
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GPS site tag attached to the well (POD) for this right.



The six-inch well used as the point of diversion for this right.

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A view of the campground with the bathroom facilities.



One of the ten to twelve spigots located in the campground and used for irrigation and domestic use. The flow rate from this spigot was 0.013 cfs.

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The bathrooms had a total of four flushing toilets. There were no other water fixtures in the bathrooms.

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Bureau of Reclamation</u> Address <u>550 Fort St. Boise</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>18'</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																		
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Other <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Discharge G.P.M.</th><th>Draw Down</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>25</td><td>21'6"</td><td>8</td></tr><tr><td>25</td><td>22'3"</td><td>24</td></tr><tr><td>30</td><td>26'4"</td><td>30</td></tr></tbody></table>	Discharge G.P.M.	Draw Down	Hours Pumped	25	21'6"	8	25	22'3"	24	30	26'4"	30																																																																						
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection	9. LITHOLOGIC LOG 037866 <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>6</td><td>0</td><td>5</td><td>dark brown cemented sand</td><td></td><td>X</td></tr><tr><td></td><td>5</td><td>38</td><td>light brown cemented sand</td><td></td><td>X</td></tr><tr><td></td><td>38</td><td>57</td><td>sticky blue clay</td><td></td><td>X</td></tr><tr><td></td><td>57</td><td>65</td><td>fine to medium quartz sand</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>muddy</td><td></td><td>X</td></tr><tr><td></td><td>65</td><td>75</td><td>very sticky light blue clay</td><td></td><td>X</td></tr><tr><td></td><td>75</td><td>90</td><td>fine to medium quartz sand & thin streaks of sticky blue clay</td><td></td><td>X</td></tr><tr><td></td><td></td><td></td><td>stainless steel pipe</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>headpipe 51'6"-57'</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>tailpipe 67'8"-72'8"</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>drilled to 90'</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>backfilled with 3/4" washed gravel</td><td></td><td></td></tr></tbody></table>	Hole Diam.	Depth		Material	Water		From	To	Yes	No	6	0	5	dark brown cemented sand		X		5	38	light brown cemented sand		X		38	57	sticky blue clay		X		57	65	fine to medium quartz sand						muddy		X		65	75	very sticky light blue clay		X		75	90	fine to medium quartz sand & thin streaks of sticky blue clay		X				stainless steel pipe						headpipe 51'6"-57'						tailpipe 67'8"-72'8"						drilled to 90'						backfilled with 3/4" washed gravel		
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4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other	RECEIVED NOV 17 1977 Department of Water Resources Western Regional Office																																																																																		
5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>72'9"</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>.288</u> inches Diameter <u>6</u> inches From <u>1'6"</u> feet To <u>56'6"</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☒ Yes ☐ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Johnson</u> Type <u>stainless steel</u> Model No. <u>304</u> Diameter <u>5</u> Slot size <u>35</u> Set from <u>57'</u> feet to <u>62'4"</u> feet Diameter <u>5</u> Slot size <u>35</u> Set from <u>62'4"</u> feet to <u>67'8"</u> feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>27</u> Material used in seal ☐ Cement grout ☒ Puddling clay ☐ Well cuttings Sealing procedure used ☐ Slurry pit ☒ Temporary surface casing ☒ Overbore to seal depth	10. Work started <u>8/27/77</u> finished <u>9/15/77</u>																																																																																		
6. LOCATION OF WELL 65 Sketch map location must agree with written location. <u>Cabarton Recreation Area</u> <u>Cascade Reservoir-West Mt.</u> Subdivision Name <u>South</u> Lot No. _____ Block No. _____ Valley County <u>SE</u> <u>SE</u> <u>32</u> <u>20</u> % <u>100</u> % Sec. <u>32</u> T. <u>16</u> N. R. <u>3</u> E.	11. DRILLER'S CERTIFICATION Firm Name <u>H.E. Stevens & Sons</u> Firm No. <u>153</u> Address <u>3709 Hawthorne Drive</u> Date <u>9/29/77</u> Signed by (Firm Official) _____ and _____ (Operator) _____																																																																																		

16N03E32

BasinSeq	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SBSW	NESE	NWSE	SWSE	SESE
65-10252	ROPER, F	GROUND DOMESTIC														X			
65-12352	KYLE, MI	GROUND DOMESTIC			X														
65-12900	HINKLE, UNNAME	GROUND DOMESTIC			X													X	
65-13487	TINES, D	GROUND DOMESTIC																	
65-16007	WILLIAM	GROUND DOMESTIC			X														
65-17023	WIESEM, GROUND	DOMESTIC																	X
65-17095	ALLRED, GROUND	DOMESTIC															X		
65-17105	WOODS, J	GROUND DOMESTIC										X							
65-17180	ALLEN, F	GROUND DOMESTIC						X											
65-17222	CARLEH, GROUND	DOMESTIC																X	
65-17255	COOK, A	GROUND DOMESTIC																X	
65-17289	FULWYL, GROUND	DOMESTIC		X															
65-17329	HINKLE, GROUND	DOMESTIC																	
65-17363	LANPHE, GROUND	DOMESTIC														X			
65-17381	HUGH C	GROUND DOMESTIC																	
65-17395	CREW, E	GROUND DOMESTIC		X															
65-17531	FRANCO, GROUND	DOMESTIC																	
65-17531	FRANCO, GROUND	DOMESTIC																	
65-17650	JARDINE	GROUND DOMESTIC																X	
65-17720	MOYER, J	GROUND DOMESTIC																	
65-17788	SUNDER, GROUND	DOMESTIC																	
65-17844	SHROLL, GROUND	DOMESTIC																X	
65-17866	GARRISO	GROUND DOMESTIC															X		
65-23044	US DEPT	GROUND DOMESTIC																	X
65-23044	US DEPT	GROUND IRRIGATION																	5.2
65-23046	US DEPT	GROUND DOMESTIC		X		X	X												
65-23046	US DEPT	GROUND IRRIGATION		0.9		1.3	2												
65-23358	ESTATE (UNNAME	IRRIGATION							1			19.5	27	40	10.5				
65-23359	ESTATE (UNNAME	DOMESTIC						X											
65-23359	ESTATE (UNNAME	IRRIGATION						21											
65-23811	NEW TR, GROUND	MUNICIPAL																	
65-23812	NEW TR, GROUND	MUNICIPAL													X	X		X	
65-23813	NEW TR, GROUND	MUNICIPAL													X	X		X	
65-23814	NEW TR, GROUND	MUNICIPAL													X	X		X	
65-6655	MOSIER, GROUND	DOMESTIC		X											X	X		X	
65-7708	ANGELL, GROUND	DOMESTIC																	
65-7716	FRANCO, GROUND	DOMESTIC															X		
65-7801	MAXWEL	GROUND DOMESTIC				X													
65-8116	SCHUGT, GROUND	DOMESTIC		X														X	
65-8329	MAXWEL	GROUND DOMESTIC																	
65-9554	WESTHU	GROUND DOMESTIC		X															
65-9650	HUNT, BI UNNAME	DOMESTIC				X													
65-9718	PACE, JA	GROUND DOMESTIC				X													X
65-9776	BERDSL, GROUND	DOMESTIC																	X

Different property no overlap
Different use, no overlap

16N08E32

BasinSeq	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
65-10252	ROPER, H	GROUND WATER													X			
65-12352	KYLE, MI	GROUND WATER			X													
65-12900	HINKLE, UNNAMED STREAM				X													
65-13487	TINES, D	GROUND WATER															X	
65-16007	WILLIAM	GROUND WATER			X													
65-17023	WIESEM, J	GROUND WATER														X		X
65-17095	ALLRED, J	GROUND WATER														X		
65-17105	WOODS, J	GROUND WATER			X													
65-17180	ALLEN, H	GROUND WATER					X											
65-17222	CARLBER	GROUND WATER															X	
65-17255	COOK, AI	GROUND WATER															X	
65-17289	FULWYLI	GROUND WATER		X														
65-17329	HINKLE, J	GROUND WATER			X													
65-17363	LANPHE, J	GROUND WATER													X			
65-17381	HUGH C	GROUND WATER			X													
65-17395	CREW, EI	GROUND WATER		X														
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65-17650	JARDINE	GROUND WATER															X	
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Different well, no overlap