

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

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STATE ENGINEER



PAHRANAGAT VALLEY
HYDROGRAPHIC BASIN 13-209

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2015

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ABSTRACT

This inventory represents the status and usage of all permitted, certificated and claims of vested right groundwater rights located within Pahrangat Valley, Hydrographic Basin 13-209, for water year 2015 (October 1, 2014 through September 30, 2015). Also included for summary purposes are graphs and data associated with this use, and yearly totals of historical groundwater use from 2010 through 2015 by manner of use.

The data presented are valid for the time period of this report, and may vary from previously published figures as water rights within the basin are subject to administrative action, such as certification, cancellation, forfeiture, or withdrawal on a continual basis.

For water year 2015, the permitted, certificated and claims of vested right groundwater rights totaled 10,744 acre-feet, with estimated pumpage of approximately **5,673 acre-feet**. This figure includes an estimated 116 acre-feet pumped from exempt domestic wells.

Irrigation is the largest manner of use within the basin. For water year 2015, appropriations for irrigation totaled 7,461 acre-feet and pumpage was 5,163 acre-feet. The second largest manner of use was municipal with appropriations totaling 1,089 acre-feet and pumpage of 287 acre-feet. The third largest manner of use was pumping by exempt domestic wells.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	209, REGION 13
HYDROGRAPHIC BASIN NAME	PAHRANAGAT VALLEY
COUNTIES	LINCOLN
MAJOR COMMUNITIES	HIKO, ALAMO
DESIGNATED	YES
DENIALS BASED UPON WATER AVAILABILITY	IRRIGATION
GROUNDWATER LEVEL MEASUREMENTS	NDWR
PUMPAGE INVENTORY, ACRE-FEET IN 2015	5,673 ¹

STATE ENGINEER’S ORDERS

<u>NO. 1199 – DESIGNATION</u>	DATE: APRIL 20, 2009
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COMMITTED GROUNDWATER RESOURCE: 10,744 ACRE-FEET	DATE: APRIL 2016
COMMERCIAL.....39 IRRIGATION.....7,461	MUNICIPAL.....1,089
QUASI-MUNICIPAL.....2 STOCKWATER.....61	WILDLIFE.....2,092

NOTE: Committed groundwater resource data are accurate for April 2016. Manner of use category totals vary over time, as rights are not necessarily static. Rights may be subject to change applications, certification, withdrawals, forfeiture and cancellations; each of these circumstances could impact the duty, diversion rate and acreage associated with a given right. The value associated with each manner of use category does not include those portions that have been relinquished in support of domestic wells.

¹ Includes pumpage by exempt domestic wells, as defined by NRS 534.013. The domestic use estimate is based upon a count of the total domestic wells in the basin multiplied by 1 acre-foot per annum. The number of domestic wells in the basin, estimated by a query of the Nevada Division of Water Resources Well Log Database, is approximately 116.

PURPOSE AND SCOPE

The purpose of this report is to inventory all of the groundwater resources allocated and described by the Office of the State Engineer, Nevada Division of Water Resources (NDWR), and to estimate the amount of groundwater pumped within the Pahrnagat Valley Hydrographic Basin (13-209), for the time period beginning October 1, 2014 and ending September 30, 2015 (hereafter referred to as water year 2015). This report estimates the amount of groundwater pumped under the permits and certificates issued by the State Engineer, claims of vested right, as well as the amount pumped by exempt domestic wells within the basin.

DESCRIPTION OF THE STUDY AREA

Pahrnagat Valley is located in central eastern Nevada, approximately 45 miles west of Caliente. The basin lies in Lincoln County (see Figure 1), and is within the Colorado River Hydrographic Region. Pahrnagat Valley is bounded on the west by the Mount Irish and Pahrnagat Ranges, on the east by the South Pahroc Range, and on the north the North Pahroc Ranges. The south boundary is defined by a series of hills at the south end of the Pahrnagat Range that connects with the north end of the Sheep Range and Delamar Mountains. The adjacent Nevada hydrographic basins are: Tikapoo Valley - Southern Part (10-169B) to the southwest; Tikapoo Valley - Northern Part (10-169A) to the west; Coal Valley (10-171) to the northwest; Pahroc Valley (13-208) to the north; Delamar Valley (10-182) to the east; and Coyote Spring Valley (13-210) to the southeast. The exterior boundary of the Pahrnagat Valley Hydrographic Basin is as described by Designation Order 1199, issued by the Nevada State Engineer April 20, 2009. The basin covers approximately 790 square miles.

There is a substantial amount of water discharged from carbonate rocks within Pahrnagat Valley, and most of this discharge originates from the Hiko, Crystal, and Ash Springs. The discharge from these perennial springs is collected via ditches and utilized mainly for irrigation and stockwatering purposes and then allowed to drain to wetland areas and to Pahrnagat (Upper and Lower), Frenchy, and Nesbitt lakes (see Figure 1). The U.S. Geological Survey (USGS) operates streamflow gaging stations on Crystal and Ash Springs.

GROUNDWATER LEVELS

Depths to groundwater in Pahrnagat Valley have been measured by NDWR semi-consistently since the mid 1960's and then consistently since the mid 1980's. There are 11 active sites in the monitoring well network. The following are the active site names and links to their data (refer to Figure 2 for monitoring well locations):

209 S03 E60 35DABD1	209 S03 E62 35DAAD1	209 S04 E60 02AABC1
209 S04 E60 02DBDC1	209 S04 E60 11CCCA1	209 S04 E60 14BB 2
209 S04 E61 01AACB1	209 S04 E61 28CD 1	209 S07 E61 09 1
209 S07 E61 21AB 1	209 S07 E62 20AA 1	

Groundwater level data have also been collected by the USGS and may be accessed through their website (<http://nevada.usgs.gov/>).

METHODS TO ESTIMATE PUMPAGE

One of the purposes of this report is to estimate the amount of groundwater pumped under vested claims, permits and certificates issued by the State Engineer, as well as the amount pumped by exempt domestic wells in the valley. The following methods were used to arrive at the estimated use:

- Where totalizing meters were in place, meter readings were taken and compared with previous data (if available).
- Where meters were not in place and the use was irrigation, pumpage was estimated by multiplying the number of hours the well was operated during the past year (determined from an hour meter reading or asking the water user) by the certificated diversion rate.
- Where there were no flow meters or other reliable options for estimating pumpage and the use was irrigation, pumpage was estimated by dividing the Net Irrigation Water Requirement (NIWR) for the crop grown by the efficiency of the irrigation method used, then multiplying by the number of acres irrigated. Irrigation efficiencies associated with three types of irrigation methods are: pivot at 85%; wheel line or other hand moved sprinklers at 75%; and flood at 60%. The pumpage amount estimated by this method was limited by the duty of the permit. For places where the groundwater rights were supplemental to surface water, groundwater use was estimated using the NIWR method above, but adjusted based on available surface water for the year. Evapotranspiration and NIWR data by basin can be found on the NDWR website at: http://water.nv.gov/mapping/et/et_general.cfm.
- Where meters were not present, previous data were not available, and the manner of use was not irrigation, pumpage was estimated by applying the annual duty associated with the certificate (if the water right was perfected), permit or claim, if the use was as described in the certificate, permit or claim. If the use was not as described in the certificate, permit or claim, a value was estimated based upon the circumstances of use for the subject year.
- Exempt domestic wells may be drilled and utilized where water service from a purveyor is not available. These types of wells do not require a permit from the State Engineer if they do not pump more than 2 acre-feet per year as provided by Nevada Revised Statutes (NRS) [534.180](#). [NRS 534.013](#) defines this category of domestic use as follows: “*Domestic use or domestic purposes extends to culinary and household purposes directly related to a single family dwelling, including, without limitation, the watering of a family garden and lawn and the watering of livestock and any other domestic animals or household pets.*” The number of exempt domestic wells in the basin was determined by a query of the NDWR Well Log Database. The amount of water pumped by exempt domestic wells is estimated to be 1 acre-foot per well in Pahranaagat Valley.

PUMPAGE BY MANNER OF USE

Note that all data herein are estimates and subject to revision.

The total estimated groundwater pumpage for the water year 2015 was 5,673 acre-feet. The annual duties of permitted, certificated and claims of vested groundwater rights within the Pahranaagat Valley Hydrographic Basin total approximately 10,744 acre-feet. The permitted and pumped totals for water year 2015, categorized by manner of use, are as follows:

A. Commercial (COM)

Appropriations for commercial purposes totaled 39 acre-feet, with estimated pumpage of 35 acre-feet.

B. Domestic (DOM)

Appropriations for domestic purposes totaled 0 acre-feet in the basin. However, records of the State Engineer indicate an estimated 116 exempt domestic wells existed in the basin during water year 2015. The amount of water pumped for domestic use as described under NRS 534.013 is estimated at 116 acre-feet.

C. Irrigation (IRR)

Appropriations for irrigation purposes totaled 7,461 acre-feet, with estimated groundwater pumpage of 5,163 acre-feet.

D. Municipal (MUN)

Appropriations for quasi-municipal totaled 1,089 acre-feet, with estimated groundwater pumpage of 287 acre-feet.

E. Quasi-Municipal (QM)

Appropriations for quasi-municipal totaled 2 acre-feet, with estimated groundwater pumpage of 1 acre-foot.

F. Stockwater (STK)

Appropriations for quasi-municipal totaled 61 acre-feet, with estimated groundwater pumpage of 12 acre-feet.

G. Wildlife (WLD)

Appropriations for wildlife totaled 2,092 acre-feet, with estimated groundwater pumpage of 59 acre-feet.

TABLES

Table 1. Pahrnagat Valley historical pumpage (acre-feet) by water year.

YEAR	DOM	COM	IRR	MUN	QM	STK	WLD	TOTAL
2010	114	37	4,765	293	3	13	0	5,225
2011	114	25	5,291	269	2	12	0	5,713
2012	114	24	4,618	290	1	12	0	5,059
2013	114	28	5,258	279	1	12	92	5,784
2014	115	38	5,195	280	1	12	98	5,739
2015	116	35	5,163	287	1	12	59	5,673

All values are in acre-feet

FIGURES

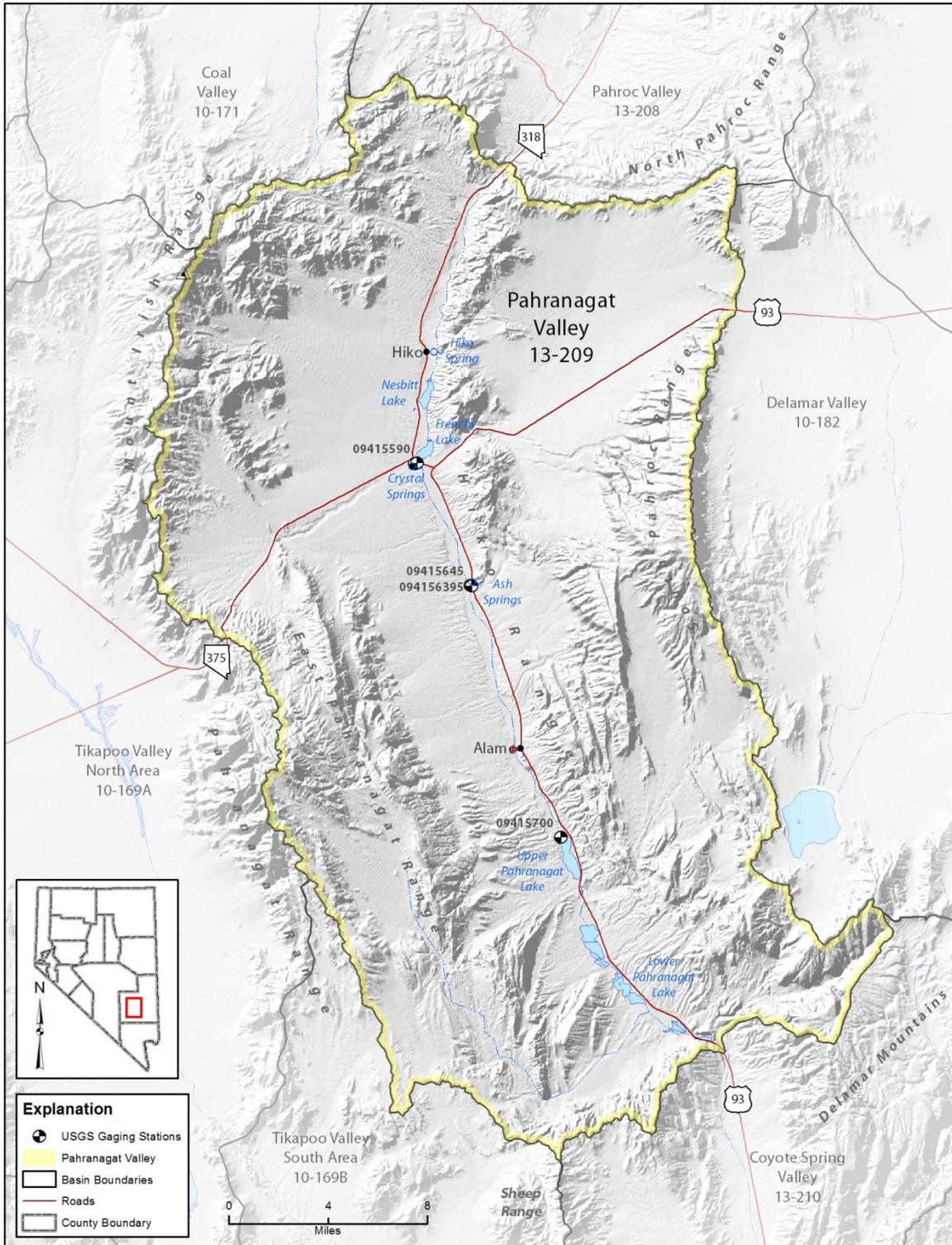


Figure 1. Location map for Pahrnagat Valley (Hydrographic Basin 13-209).



Figure 2. Pahranaqat Valley farm areas and water level monitoring sites. Base map is standard satellite imagery; National Agriculture Imagery Program is incomplete in this area.

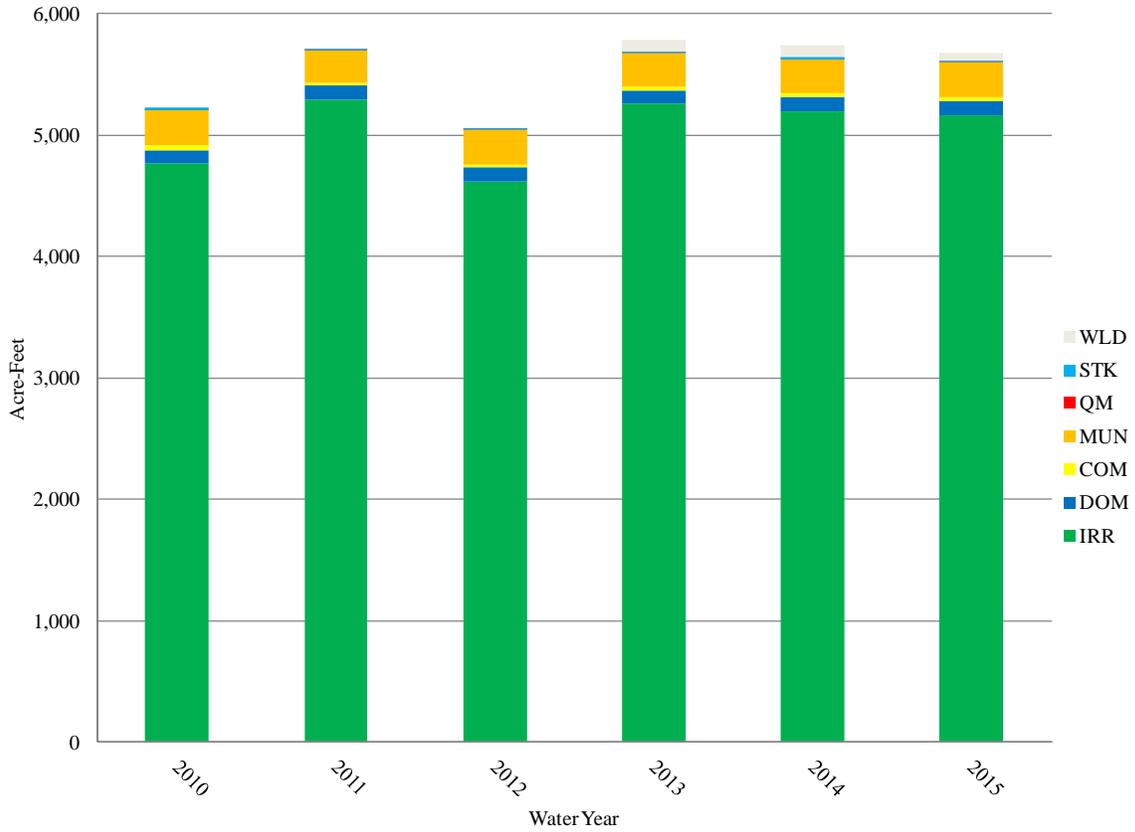


Figure 3. Pahrnagat Valley historical pumpage by manner of use.

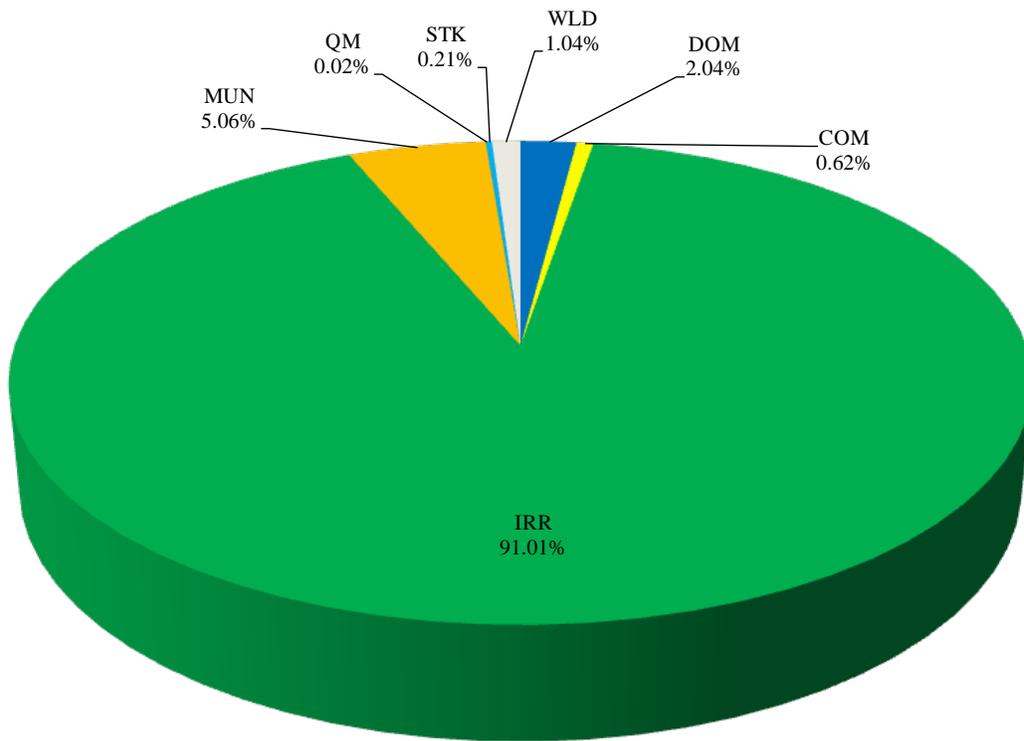


Figure 4. Percentage of 2015 groundwate pumpage by manner of use.

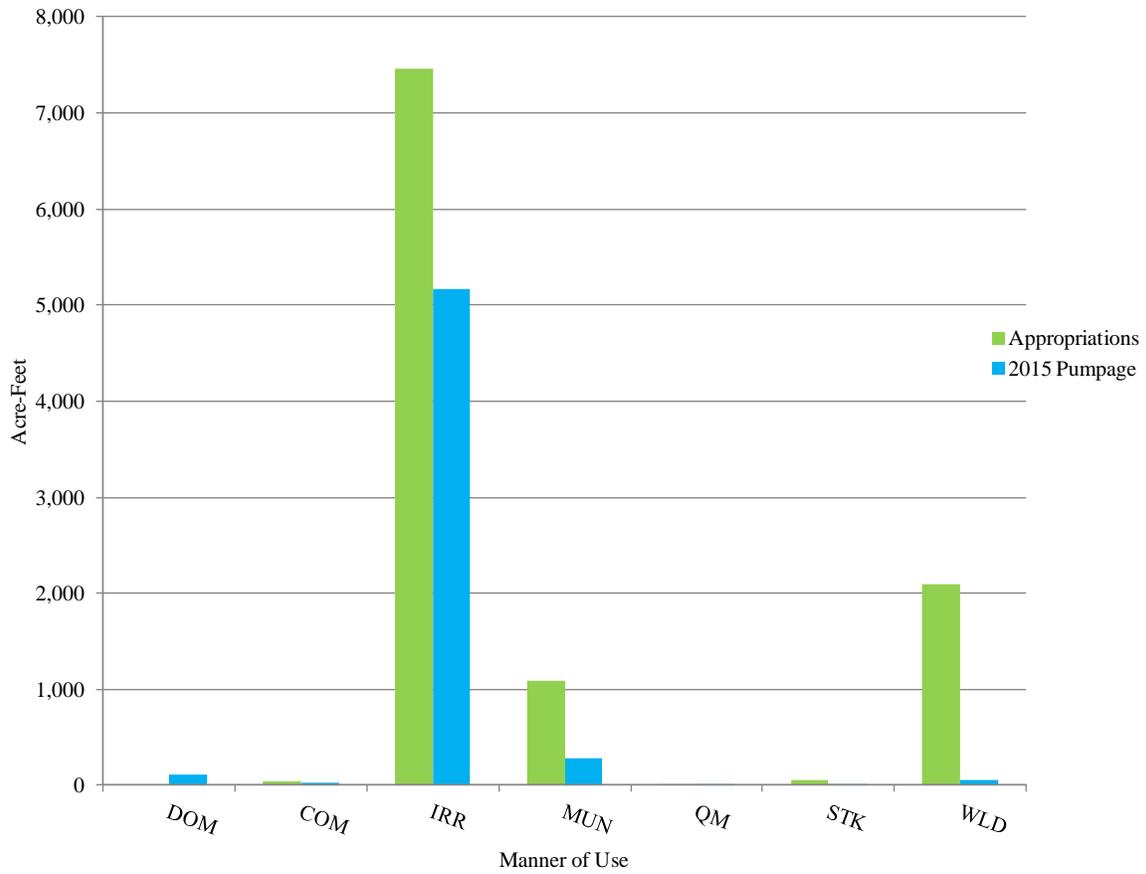


Figure 5. 2015 groundwater pumpage appropriations versus actual pumpage.

**APPENDIX A. PAHRANAGAT VALLEY 2015 GROUNDWATER PUMPAGE BY
APPLICATION NUMBER.**

EXPLANATION OF COLUMN HEADINGS FOR GROUNDWATER PUMPAGE INVENTORY

APP NUMBER	The file number of the Application or the Vested Claim of Right.																
STATUS	Indicates if the application is a Vested Claim of Right (VST), a Permit (Permit), or a Certificate (Cert).																
OWNER OF RECORD	The owner of the water right as recorded in the files of the State Engineer. A water right may have more than one owner of record.																
PLACE OF USE																	
QQ	The quarter quarter of the Section in which the point of diversion is located.																
Qtr	The quarter of the Section in which the point of diversion is located.																
Sec	The Section in which the point of diversion is located.																
T	The Township in which the point of diversion is located.																
R	The Range in which the point of diversion is located.																
ACRES OR DUTY	The number of acres that are permitted to be irrigated or the duty if the manner of use is anything other than irrigation.																
ACRES IRR OR USE	<p>The number of acres irrigated or the manner of use of the appropriated water. The types of manner of use may include:</p> <table border="0" style="width: 100%;"> <tr> <td>COM - Commercial</td> <td>CON - Construction</td> </tr> <tr> <td>DOM - Domestic</td> <td>ENV - Environmental</td> </tr> <tr> <td>IND - Industrial</td> <td>IRR - Irrigation</td> </tr> <tr> <td>MM - Mining & Milling</td> <td>MUN - Municipal</td> </tr> <tr> <td>OTH - Other</td> <td>PWR - Power</td> </tr> <tr> <td>QM - Quasi-Municipal</td> <td>REC - Recreation</td> </tr> <tr> <td>STK - Stockwater</td> <td>STO - Storage</td> </tr> <tr> <td>WLD - Wildlife</td> <td></td> </tr> </table>	COM - Commercial	CON - Construction	DOM - Domestic	ENV - Environmental	IND - Industrial	IRR - Irrigation	MM - Mining & Milling	MUN - Municipal	OTH - Other	PWR - Power	QM - Quasi-Municipal	REC - Recreation	STK - Stockwater	STO - Storage	WLD - Wildlife	
COM - Commercial	CON - Construction																
DOM - Domestic	ENV - Environmental																
IND - Industrial	IRR - Irrigation																
MM - Mining & Milling	MUN - Municipal																
OTH - Other	PWR - Power																
QM - Quasi-Municipal	REC - Recreation																
STK - Stockwater	STO - Storage																
WLD - Wildlife																	
USED (AF)	The amount of water used during the water year, in acre-feet, as determined by review of records and/or field investigation.																
REMARKS	Notes pertaining to field investigation and/or review of records.																

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209 - 2015**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T R				
V-03154	Proof	Buckhorn Ranch	NW	SE	24	8 61	11.88	STK	0.00	WNV, actual source TBD
V-03155	Proof	Buckhorn Ranch	NW	SE	24	8 61	11.88	STK	0.00	WNV, actual source TBD
V-03160	Proof	Buckhorn Ranch	NW	SE	24	8 61	11.88	STK	0.00	WNV, actual source TBD
V-03161	Proof	Buckhorn Ranch	SE	SE	32	8 62	11.88	STK	0.00	WNV, actual source TBD
V-08964	Proof	Floyd Lamb	NE	SE	21	7 61	0.68	STK	0.00	WNV. 10-09-13
12898	Cert.	Alamo Water&Sewer			1	6 60	1089.10	MUN	287.20	POD 12898: S/N 822412 Well 5
30161	Abr.		12							RD - 3618180 - 10-13-15, well not in use
30162	Permit		6	6	61					POD 30161: WV, capped
45908	Permit		7							POD 30162: S/N 1379689 Well 3
45909	Permit		18-20							RD - 09891400 - 10-13-15, well not in use
54514	Permit		29-32							POD 45908: S/N 6979060 Well 6
55533	Permit		1	7	60					RD - 39625000 - 10-13-15, well not in use
80337	Permit		12							POD 45909: S/N 9661116 Well 4
81758	Permit		4-9	7	61					RD - 75176600 - 10-13-15, well not in use
			16-17							POD 54514: S/N 0004453 Well 1
			21-22							RD - 39396000 - 10-13-15, well not in use
		27-28				POD 55533: S/N 9867636 Well 2				
		34-35				RD - 58734400 - 10-13-15, well not in use				
		2	8	61		POD 80337: S/N M165932612 Sandhill				
		3				RD - 000183724400 - 10-13-15				
		10				POD 81758: S/N M165922612				
		11				RD - 000075074500 - 10-13-15				
19475	Cert.	Schofield	NE	NE	34	4 60	4.50	0.00		
			SE	NE			10.20	0.00		
			TOTAL				14.70	0.00	0.00	House Vacant 10-14-15

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209 - 2015**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T R				
25906	Cert.	Wildlife Dept.	NE	SE	22	4	60	1.70		25906 is limited to 405 Ac-Ft 25907 (WLD) is limited to what well can produce, not to exceed diversion rate expanded for 184 days per year, being 405.1 ac-ft/yr. POU Frency & Nesbitt Lakes 25913 is limited to 270 Ac-Ft
25907	Cert.		SE	SE				3.20		
25913	Cert.		NE	SW	23			23.90		
			NW	SW				30.10		
			SW	SW				39.70		
			SE	SW				9.10		
			NW	NW	26			15.70		
		NE	NW				<u>0.60</u>			
		TOTAL					124.00	124.00	80.65	
26638	Cert.	Craig & Annette Turley	SW	SE	8	7	61	10.00	5.00	Well used for 81252-T RD - 119376 * 0.001 AF / 10-24-14 RD - 226648 * 0.001 AF / 10-14-15
81252-T	Exp.		NW	NE	17			40.00	7.30	
			NE	NE				40.00	27.00	
			SE	NE				<u>40.00</u>	<u>13.00</u>	
			TOTAL					130.00	52.30	
28296	Cert.	Gifford			32	6	61	29.85	29.85	74.63 Irrigated with surface water. Credited duty 2.5 Ac-Ft/Ac
32354	Cert.	Hiko Properties, LLC Whipple	SE	SW	11	4	60	12.44	9.50	No Permit (South Well):S/N 140142406 RD - 69155800 - 10-24-14 RD - (1)32217700 - 10-14-15 POD 35055 (Middle Well):S/N 9974534 RD - 47554900 - 10-24-14 RD - (1)10112400 - 10-14-15 POD 32354 & 35054 (North Well): SN 2007095306 RD - 273606000 - 10-24-14 RD - 315247000 - 10-14-15
35054	Cert.		SW	SW	11			8.89	7.03	
35055	Cert.		NW	NW	14			15.66	15.66	
70990	Permit		NE	NW	14			35.60	35.60	
72770	Permit		SW	NW	14			7.32	7.32	
72771	Permit		SE	NW	14			18.22	18.22	
72772	Permit		SW	NE	14			<u>1.67</u>	<u>1.67</u>	
		TOTAL					99.80	95.00	526.28	

GROUNDWATER PUMPAGE INVENTORY PAHRANAGAT VALLEY, NO. 209 - 2015

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T R				
35453	Cert.	Joe V. Higbee	NW SW	32	6	61	8.00	8.00	70.00	Irrigated with surface water. Credited duty 2.5 Ac-Ft/Ac
			NE SW	32			<u>20.00</u>	<u>20.00</u>		
			TOTAL				28.00	28.00		
35739	Cert.	Charles Wadsworth	NE NW	23	4	60	20.00	20.00	72.50	Irrigated with surface water. Credited duty 2.5 Ac-Ft/Ac
			NW NW	23			<u>9.00</u>	<u>9.00</u>		
			TOTAL				29.00	29.00		
45759	Cert.	Buckhorn Ranch	NW NE	21	7	61	27.41	27.41	129.56	1.0 acre orchard and garden RD - 156192 * 0.001 AF / 10-09-13 RD - 260420 * 0.001 AF / 10-24-14 RD - 386790 * 0.001 AF / 10-14-15
52013	Cert.		NE NE				7.29	7.29		
			SW NE				14.68	14.68		
			SE NE				<u>38.11</u>	<u>38.11</u>		
		TOTAL				87.49	87.49			
45761	Cert.	LDS Church	SE SE	17	7	62	2.24	STK	2.24	No field sheet
48333	Cert.	Frias	SW NE	32	6	61	10.90	4.00	16.53	Pasture grass, NIWR = 3.1
78099	Permit						13.00	COM	10.99	See field sheet for mtr readings
48913	Cert.	Spencer	SW SE	30	6	61	3.45	3.45	19.67	See field sheet for mtr readings
53698	Cert.	Lange	NW NE	31	6	61	5.00	5.00	31.76	RD - 89384900 - 10-9-13 RD - (1)01379000 - 10-24-14 RD - (1)11471800 - 10-14-15
55918	Permit	Whipple	NE SE	18	6	61	20.00	9.00	300.67	Alfalfa, NIWR = 4.4
			NW SE	18			20.00	9.00		
			SE SE	18			20.00	14.00		
			SW SE	18			<u>20.00</u>	<u>9.00</u>		
			TOTAL				80.00	41.00		

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209 - 2015**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T R				
55919	Permit	Whipple	NW SW	18	6	61				
			NE SW	18						24.6 acres within the described
			SE SW	18						place of use
			TOTAL				24.60	0.00	0.00	WNV
55920	Permit	Whipple	NE SE	19	6	61	<u>30.40</u>			
							30.40	0.00	0.00	
56364	Cert.	Lewis	NE SW	16	7	61	<u>7.97</u>	<u>7.50</u>		
			NW SE				<u>1.91</u>	<u>1.44</u>		7.5 acres NE SW supplemental
							9.88	8.94	22.35	to decree water @2.5 ac-ft/ac
59308	Cert.	LDS Church	NE NW	10	5	60	7.86	STK	7.86	
			SE NW							
61880	For.	Wilkinson	NE SW	16	7	61	1.10	0.00	0.00	
62439	Permit	USF&W		2	8	61				62439 is limited to 960.94 Ac-Ft
62440	Permit			10						62440 is limited to 723.8 Ac-Ft
				11						Max 4 Ac-Ft/Yr from all sources
				14						
				15						POD 62439: S/N 94416215 Well 2
				23						RD - 98316500 - 10-09-13
				24						RD - 98316500 - 10-24-14
				25						RD - 98570000 - 10-14-15
				31	8	62				POD 62440: S/N 133159 Well 1
				32						RD - 20372700 - 10-09-13
				4	9	62				RD - 53650000 - 10-24-14
			5						RD - 72259000 - 10-14-15	
			TOTAL					WLD	59.35	

GROUNDWATER PUMPAGE INVENTORY PAHRANAGAT VALLEY, NO. 209 - 2015

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS	
			QQ	Qtr	Sec	T R					
62864 68334	Cert. Cert.	Johnson	NE	NE	34	4	60	16.52	16.52	96.92	Alfalfa, NIWR = 4.4
63238 67699	Cert. Cert.	Leadership Poss.	NE	NE	31	6	61	19.04	COM	17.40	POD 63238: S/N 9812822 RD - 50771300 - 10-23-12 RD - 54637700 - 10-09-13 RD - 56953000 - 10-24-14 RD - 60953500 - 10-14-15 POD 67699: S/N 58024425 RD - 26907100 - 10-23-12 RD - 30140400 - 10-09-13 RD - 37502500 - 10-24-14 RD - 39030200 - 10-14-15
67150	Cert.	U.S. Fish and Wild	SE	NE	10	8	61	0.92	QM	0.65	S/N 2315002, in R.O. House RD - 0235990 - 10-09-13, old meter RD - 0595010 - 10-24-14, new meter RD - 0801810 - 10-14-15
68412 78844	Cert. Permit	HT Cabins LLC Windmill Ridge, LLC	SE	SW	06	6	61	7.15	COM	6.44	S/N 49440233 RD - 8151080 - 10-23-12 RD - 9124760 - 10-09-13 RD - (1)0502560 - 10-24-14 RD - (1)2547820 - 10-14-15

GROUNDWATER PUMPAGE INVENTORY PAHRANAGAT VALLEY, NO. 209 - 2015

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T R				
69870	Permit	Biggs	NE	SW	16	7 61	3.60	0.00	5.09	See field sheet for mtr readings
70505	Permit	Davis	SW	NW	23	4 60	1.37	1.37	17.93	See field sheet for mtr readings
70509	Cert.	Wright	NW	SE	15	4 61	2.24	STK	2.24	100 cattle. WV, no meter. 10-11-11
74652	Permit	Jensen	SE	NW	16	7 61	1.08	1.08	1.53	See field sheet for mtr readings
74653	Permit	Jensen	NW	NW	16	7 61	1.54	1.54	12.00	See field sheet for mtr readings Permitted Duty 12 Ac-Ft/Yr
			NE	NE	17		<u>1.46</u>	<u>1.46</u>		
			TOTAL				3.00	3.00		
78582	Permit	Jensen	NW	NW	16	7 61	1.12	QM	0.68	See field sheet for mtr readings
			NE	NE	17					
78891	Permit	Prince	N2	SW	16	7 61	5.00	3.53	1.72	See field sheet for mtr readings
79034	Permit	Stewart - Nevada	SE	SE	13	3 60	25.32	25.32	145.34	See field sheet for mtr readings
79035	Permit	Enterprises LLC	SW	SE	24					
			NE	NE						
			NW	NE						
			TOTAL							

GROUNDWATER PUMPAGE INVENTORY PAHRANAGAT VALLEY, NO. 209 - 2015

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (AF)	REMARKS	
			QQ	Qtr	Sec	T R					
79132 80873-T	Permit Exp.	Whipple Trust	NE	NW	18	6	61				
			NW	NE							
			SW	NE							
			NW	SE						Temporary permit for	
			NE	SE						construction water expired	
			TOTAL				54.20	10.00	127.99	See field sheet for mtr readings	
79197	Permit	Herring	NW	NE	17	7	61	0.83	0.83		
			NE	NE				<u>8.55</u>	<u>8.55</u>		
			TOTAL				9.38	9.38	37.52	Permitted Duty 37.52 Ac-Ft/Yr	
79484	Permit	Stewart - Nevada	SE	SE	13	3	60	300.28	300.28	1166.50	POD 79484 & 79485: S/N 11-10588
79485	Permit	Enterprises LLC	SW	SW	18	3	61				RD - 694572 X 0.001 AF - 10-9-13
80627	Abr.		W2	NW	19						RD - 949280 X 0.001 AF - 10-24-14
80628	Abr.		NW	SW	19						RD - (1)240719 X 0.001 AF - 10-14-15
81872	Permit			SE	24	3	60				POD 80627: S/N 11-106310
81873	Permit			NE	24						RD - (1)515235 X 0.001 AF - 10-9-13
81874	Permit			NE	25						RD - (2)128485 X 0.001 AF - 10-24-14
81875	Permit										RD - (2)728259 X 0.001 AF - 10-14-15
											POD 80628: S/N 11-10628
											RD - (1)079780 X 0.001 AF - 10-9-13
											RD - (1)400629 X 0.001 AF - 10-24-14
											RD - (1)647150 X 0.001 AF - 10-14-15

GROUNDWATER PUMPAGE INVENTORY PAHRANAGAT VALLEY, NO. 209 - 2015

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T R				
79486	Permit	Stewart - Nevada	E2	SE	35	3	60		POD 79486 & 79487: S/N GP11-1060-10	
79487	Permit	Enterprises LLC	W2	SW	36				RD - (1)725238 X 0.001 AF - 10-24-14	
79488	Permit		W2	NW	1	4	60		RD - (2)365904 X 0.001 AF - 10-14-15	
79489	Abr.		NW	SW	1				POD 79488: S/N GP11-1059-8	
79490	Permit		SW	SW	1				RD - (1)169608 X 0.001 AF - 10-24-14	
81869	Permit		E2	NE	2				RD - (1)503346 X 0.001 AF - 10-14-15	
81870	Permit		SW	NE	2				POD 79489: S/N 14-13295-10	
81871	Permit		SE		2				RD - 552854 X 0.001 AF - 10-24-14	
			NE	NE	11				RD - (1)052085 X 0.001 AF - 10-14-15	
			S2	NE	11				POD 79490: S/N GP11-1057-6	
			SE	NW	11				RD - 719322 X 0.001 AF - 10-24-14	
		NE	SW	11				RD - 899612 X 0.001 AF - 10-14-15		
		SE	SW	11						
		NW	SE	11						
		SW	SE	11						
		TOTAL					285.86	285.86	1695.74	

GROUNDWATER PUMPAGE INVENTORY PAHRANAGAT VALLEY, NO. 209 - 2015

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS	
			QQ	Qtr	Sec	T R					
84387	Permit	LDS Church	NW	NE	10	5 60	0.00	2.56			
84388	Permit		SE	NE	10		0.00	0.00			
84389	Permit		SW	NE	10		0.00	0.00			
28642	Abr.		NE	NW	10		0.00	1.35			
35256	Abr.		SE	NW	10		0.00	27.72			
52120	Abr.		NW	SE	10		0.00	18.90			
			NE	SW	10		<u>0.00</u>	<u>0.00</u>			
			TOTAL				162.68	50.53	296.44	Alfalfa, NIWR = 4.4	
								TOTAL	5,454.35	Permitted rights	
			N2	14	4	60	0.00	20.00	103.53	Alfalfa, NIWR = 4.4	
								TOTAL	103.53	Non-Permitted rights	

Verified with field notes: Christo Cooper

**APPENDIX B. PAHRANAGAT VALLEY 2015 GROUNDWATER PUMPAGE FIELD
NOTES.**

2015

Pahranagat Valley

No. 209

Inventory Field Notes

Compiled by:

Christi Cooper and John Guillory, P.E.

State of Nevada

Division of Water Resources

Southern Nevada Branch Office

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 19475

WELL: YES NO

METER SER NO: 05025504

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 585557 * .0001 AF

PHOTO: YES NO

ACRES IRR: 0.0

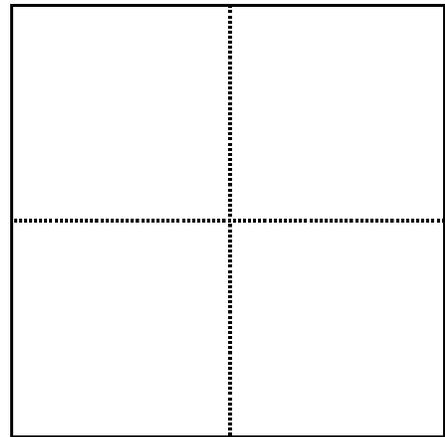
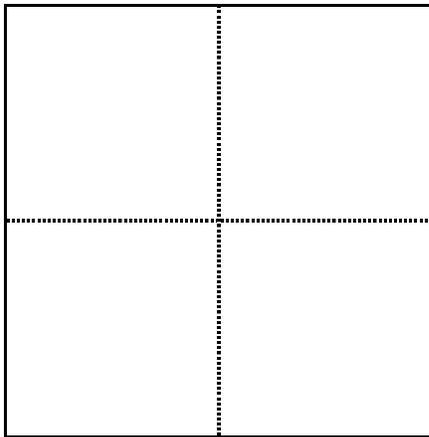
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: House vacant. Same meter reading as 2014.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209 PERMIT NO: 25906, 25907 & 25913

WELL: YES NO METER SER NO: _____

PUMP: YES NO PUMP TYPE: Submersible

MOTOR: YES NO MOTOR TYPE: _____

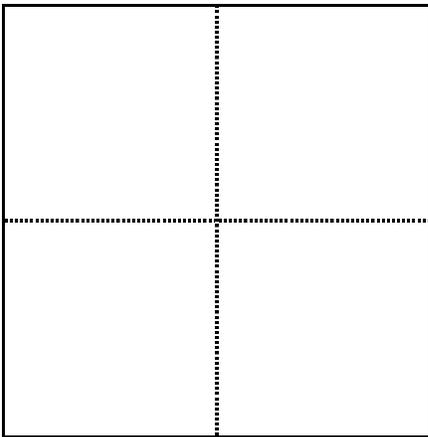
METER: YES NO METER READ: _____

PHOTO: YES NO ACRES IRR: 124.0

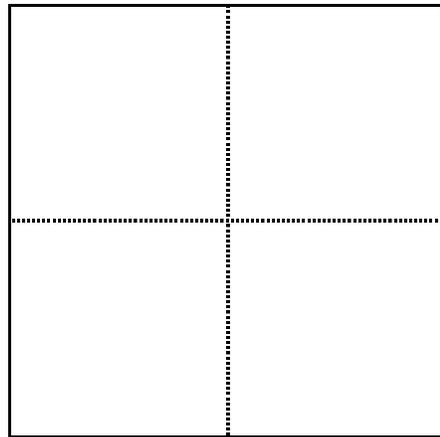
BENEFICIAL USE: YES NO PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC



 1/4 1/4 SEC



REMARKS: POD 25906 & 25907 (South well): no meter, well pumped approximately
50 GPM year around per refugee manager.

POD 25913 (North well): equipped, no meter.

Key Pittman wildlife management area.

SIGNATURE: Christi Cooper DATE: 10/14/2015

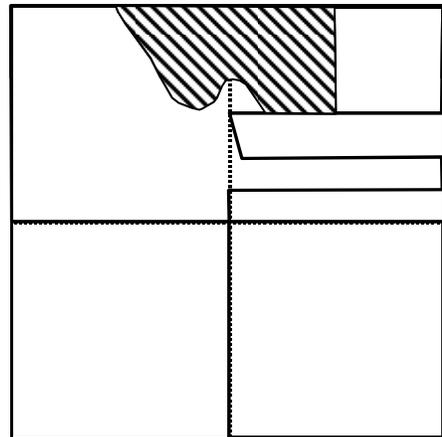
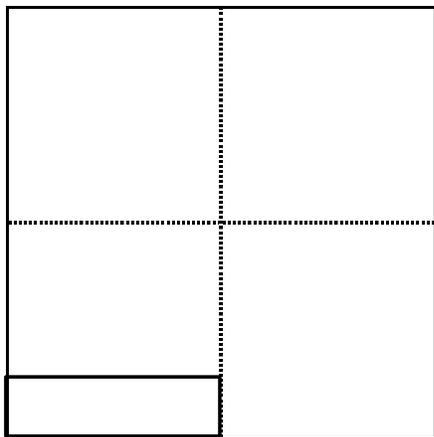
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209 PERMIT NO: 26638
 WELL: YES NO METER SER NO: 13-06029-06
 PUMP: YES NO PUMP TYPE: Straight shaft
 MOTOR: YES NO MOTOR TYPE: Electric
 METER: YES NO METER READ: 226648 x 0.001 AF
 PHOTO: YES NO ACRES IRR: 52.30
 BENEFICIAL USE: YES NO PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

1/4 **SE** 1/4 SEC **8**

1/4 **NE** 1/4 SEC **17**



REMARKS: Acreage adjusted from aerial photo. Acreage irrigated depicted above from well water; well was also pumped to water tank for dust control.
Alfalfa, wheel line.

SIGNATURE: Christi Cooper DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 28296

WELL: YES NO

METER SER NO: _____

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: 29.85

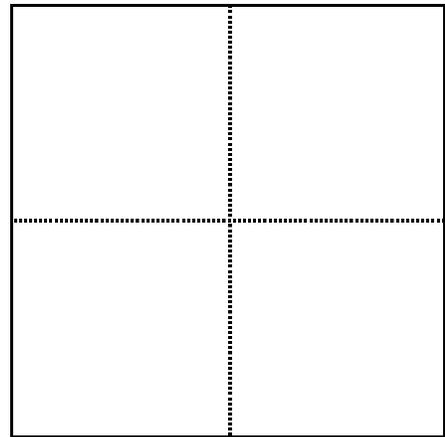
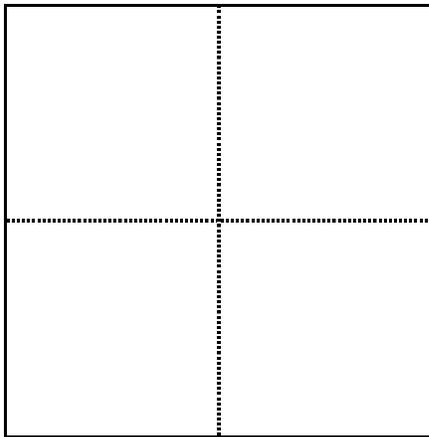
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: No meter. Well is equipped with power and hoses ran to irrigation

diverter. Surface water used to irrigate. Credited duty 2.5 Ac-Ft/Ac.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

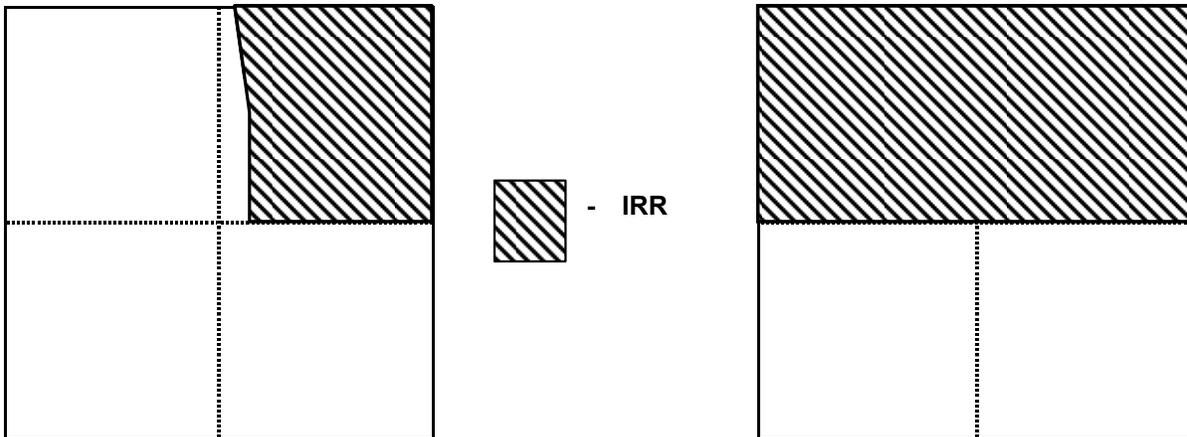
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209 PERMIT NO: 35453
 WELL: YES NO METER SER NO: _____
 PUMP: YES NO PUMP TYPE: Submersible
 MOTOR: YES NO MOTOR TYPE: _____
 METER: YES NO METER READ: _____
 PHOTO: YES NO ACRES IRR: 28.0
 BENEFICIAL USE: YES NO PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

NW 1/4 SW 1/4 SEC 32

NE 1/4 SW 1/4 SEC 32



REMARKS: Water used to supplement surface water on a portion, cows.

Credit @ 2.5 ac-ft/ac on supplemented portion

SIGNATURE: Christi Cooper DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 35739

WELL: YES NO

METER SER NO: _____

PUMP: YES NO

PUMP TYPE: Straight shaft

MOTOR: YES NO

MOTOR TYPE: Electric

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: 29.0

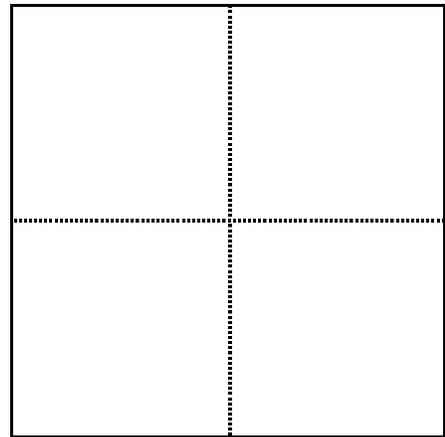
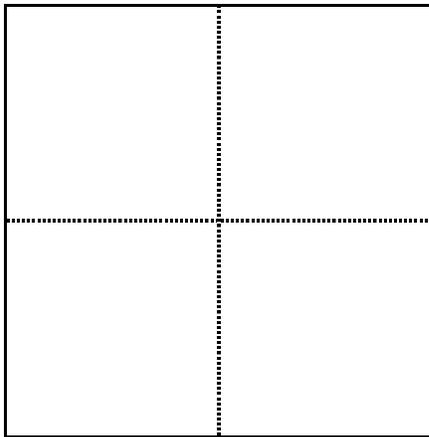
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: POU irrigated with surface water - power meter for well removed.

Credited duty 2.5 Ac-Ft/Ac.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 45759 & 52013

WELL: YES NO

METER SER NO: 08-07757-06

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: Electric

METER: YES NO

METER READ: 386790 * .001 AF

PHOTO: YES NO

ACRES IRR: 87.5

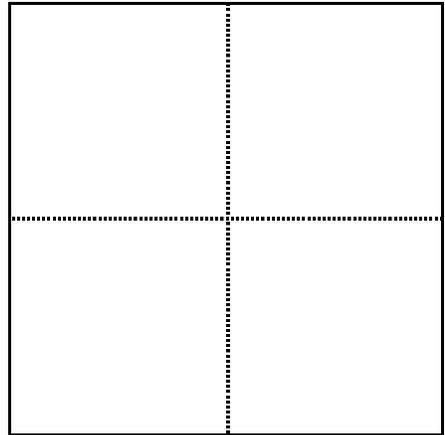
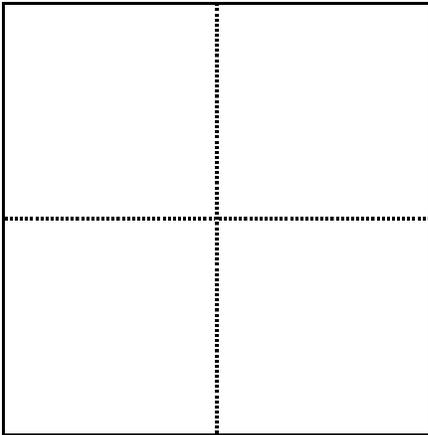
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Meter reads in acre-feet.

Approx. 1.0 acre of the 6.08 acre parcel in NW 1/4 NE 1/4 was irrigated as an orchard and garden. All other acreage irrigated. Portion of project on Alamo Water.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

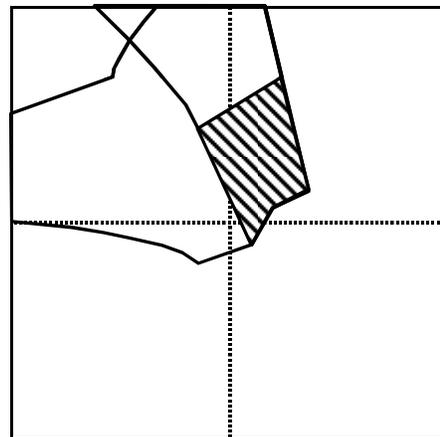
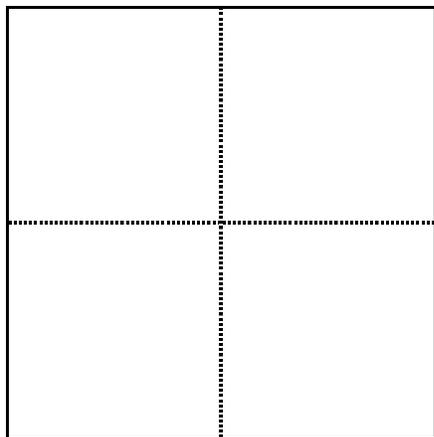
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: <u>209</u>	PERMIT NO: <u>48333 & 78099</u>
WELL: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	METER SER NO: <u>ET4BP768</u>
PUMP: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	PUMP TYPE: <u>Submersible</u>
MOTOR: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	MOTOR TYPE: _____
METER: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	METER READ: <u>05327400</u>
PHOTO: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	ACRES IRR: <u>4.0</u>
BENEFICIAL USE: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	PORTION <input checked="" type="checkbox"/> ALL <input type="checkbox"/> TYPE <u>Irrigation</u>

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

SW 1/4 NE 1/4 SEC 32



REMARKS: Well down hill behind home & mobile home. Cowboys dream in operation.

New Neptune meter installed 6/25/14 with initial reading of zero, when replacement well was drilled.

RD - 01836100 - 10-24-14.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 48913

WELL: YES NO

METER SER NO: 22122914

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 12922100

PHOTO: YES NO

ACRES IRR: 3.45

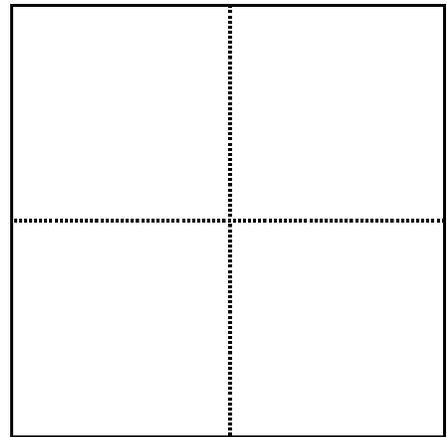
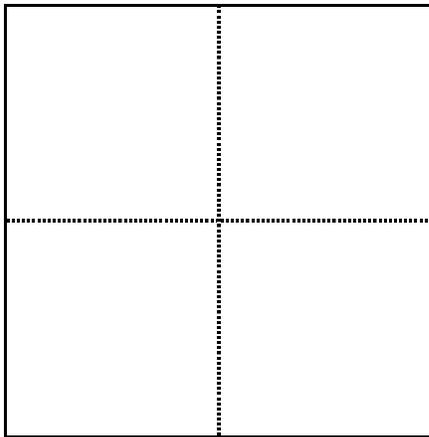
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Elster meter next to pumphouse. Grapes.

RD - 06670900 - 10-24-14.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 53698

WELL: YES NO

METER SER NO: 62254796

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: (1)11471800

PHOTO: YES NO

ACRES IRR: 5.0

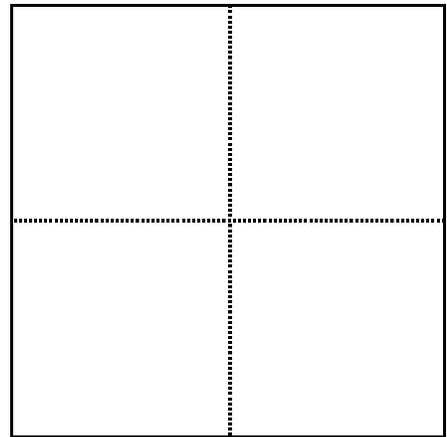
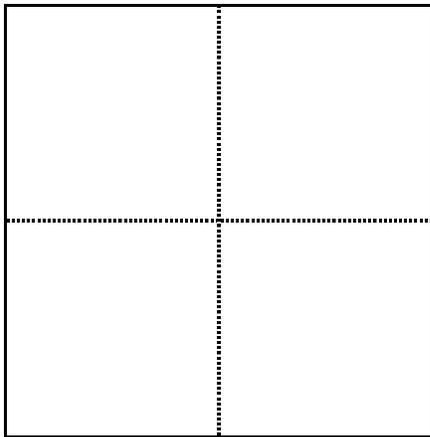
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: 5.0 acres of lawn, pasture and garden with one log home, using sprinklers.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 55918

WELL: YES NO

METER SER NO: 090207704

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 0171782000

PHOTO: YES NO

ACRES IRR: 41.0

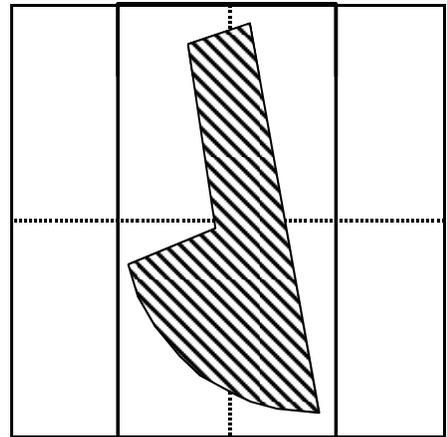
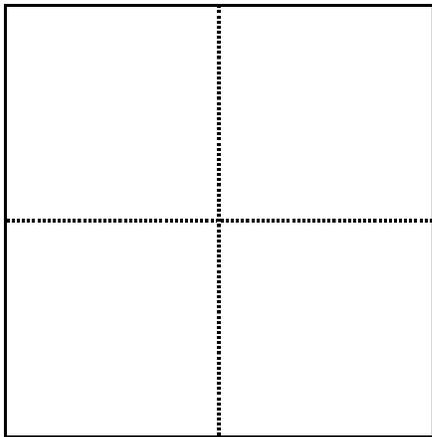
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 SE 1/4 SEC 18



REMARKS: Meter broken, same meter reading as 2013, 2014.

Alfalfa.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 55919

WELL: YES NO

METER SER NO: _____

PUMP: YES NO

PUMP TYPE: _____

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: 0.0

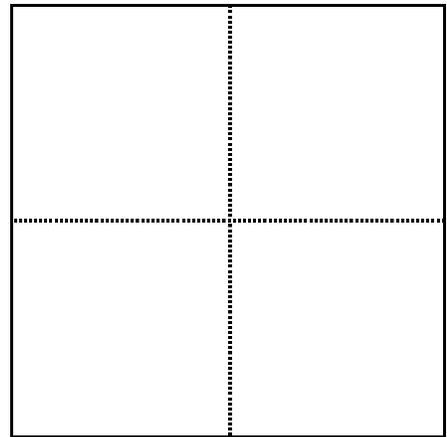
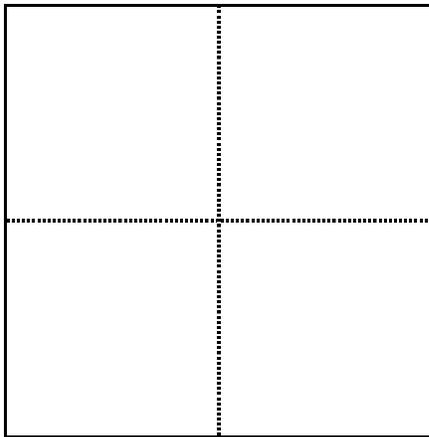
BENEFICIAL USE: YES NO

PORTION ALL TYPE _____

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: WNV

SIGNATURE: Christi Cooper

DATE: 10/14/2015

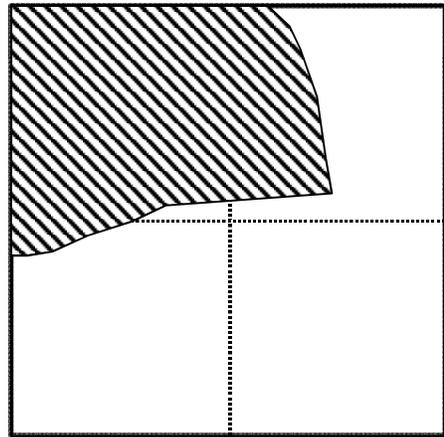
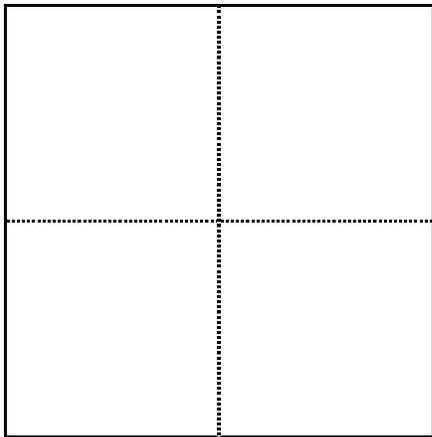
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: <u> 209 </u>	PERMIT NO: <u> 55920 </u>
WELL: YES <u> X </u> NO <u> </u>	METER SER NO: <u> 09-02076-04 </u>
PUMP: YES <u> X </u> NO <u> </u>	PUMP TYPE: <u> Submersible </u>
MOTOR: YES <u> </u> NO <u> X </u>	MOTOR TYPE: <u> </u>
METER: YES <u> X </u> NO <u> </u>	METER READ: <u> 00002700 </u>
PHOTO: YES <u> </u> NO <u> X </u>	ACRES IRR: <u> 0.0 </u>
BENEFICIAL USE: YES <u> </u> NO <u> X </u> PORTION <u> </u> ALL <u> </u> TYPE <u> </u>	

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 NE 1/4 SE 1/4 SEC 19



REMARKS: Previously described well not intended POD. Well not connected.

 Area irrigated (approx. 15 acres) as noted on the above map was not irrigated

 from this POD.

SIGNATURE: Christi Cooper DATE: 10/14/2015

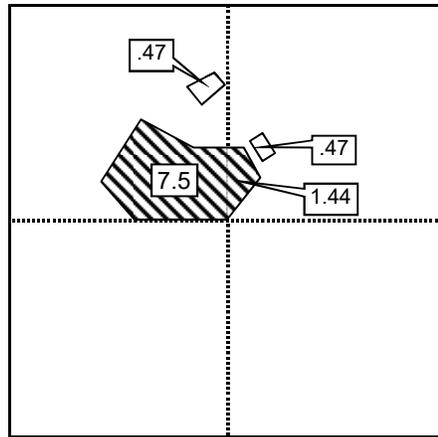
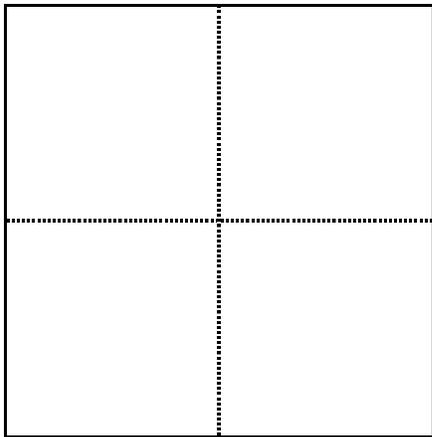
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209 PERMIT NO: 56364
 WELL: YES NO METER SER NO: _____
 PUMP: YES NO PUMP TYPE: Submersible
 MOTOR: YES NO MOTOR TYPE: _____
 METER: YES NO METER READ: _____
 PHOTO: YES NO ACRES IRR: 8.94
 BENEFICIAL USE: YES NO PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 E 1/2 SW 1/4 SEC 16
 W 1/2 SE 1/4 SEC 16



REMARKS: Decree land irrigated @ 2.5 ac-ft/ac

.47 acre parcel NW4 SE4 and .47 acre parcel NE4 SE4 not irrigated.

No meter.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 59308

WELL: YES NO

METER SER NO: _____

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: _____

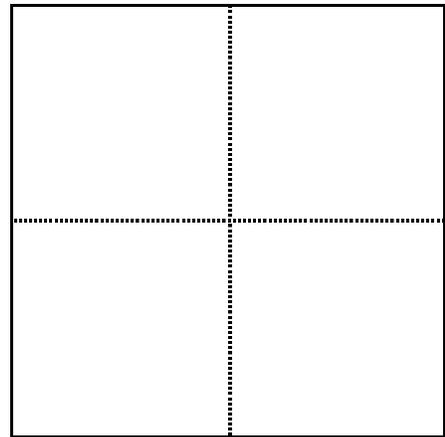
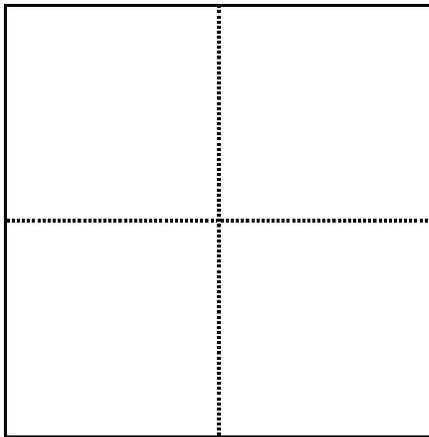
BENEFICIAL USE: YES NO

PORTION ALL TYPE Stockwater

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Several head of cattle. No meter.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 61880

WELL: YES NO

METER SER NO: _____

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: 0.00

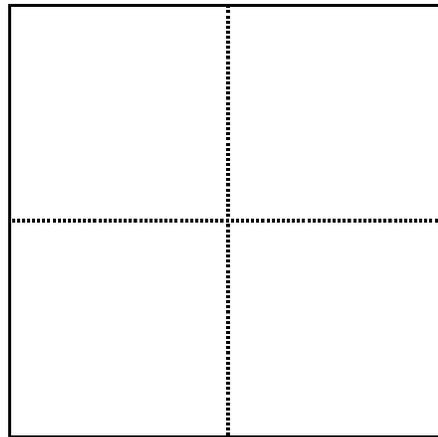
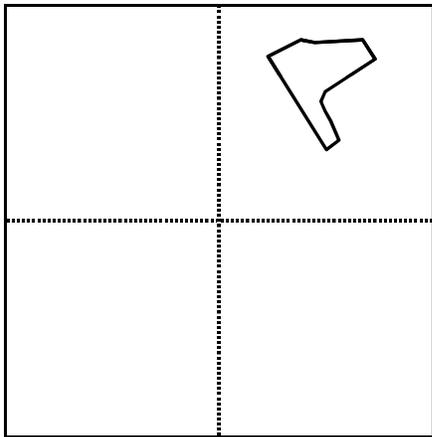
BENEFICIAL USE: YES NO

PORTION ALL TYPE _____

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

NE 1/4 SW 1/4 SEC 16

_____ 1/2 _____ 1/4 SEC _____



REMARKS: Forfieted 09-13-13. Same well as No. 56364

SIGNATURE: Christi Cooper

DATE: 10/14/2015

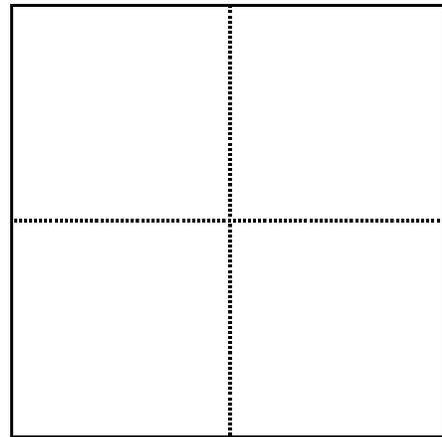
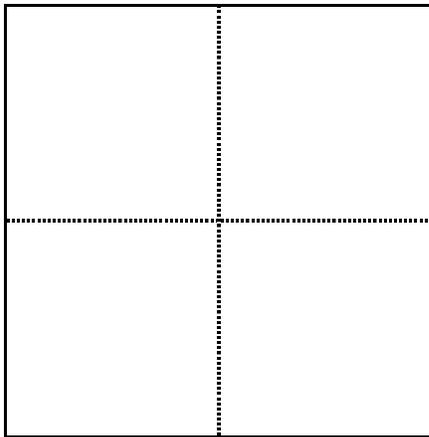
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209 PERMIT NO: 62439 & 62440
WELL: YES X NO METER SER NO: See Remarks
PUMP: YES X NO PUMP TYPE: Submersible
MOTOR: YES NO X MOTOR TYPE:
METER: YES X NO METER READ: See Remarks
PHOTO: YES NO X ACRES IRR:
BENEFICIAL USE: YES X NO PORTION X ALL TYPE Wildlife

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Irrigation of trees during summer and to fill ponds

POD 62439 North well (well No. 2): S/N 94416215, RD- 98570000 -10-14-15

POD 62440 South well (well No. 1): S/N 133159, RD- 72259000 -10-14-15

South well meter is approx. 50 feet east of wellhead

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 62864 & 68334

WELL: YES NO

METER SER NO: _____

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: 16.52

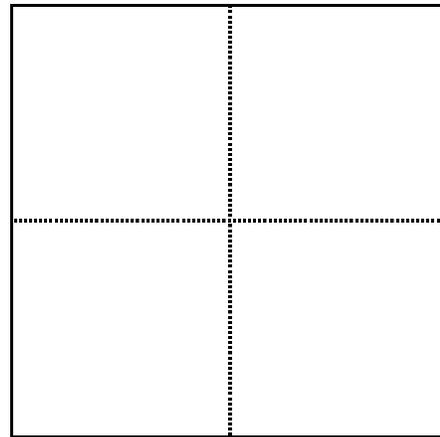
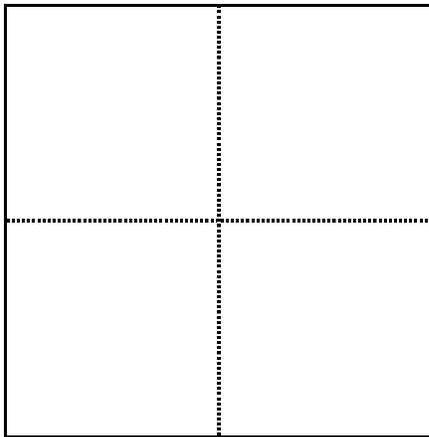
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: POD 68334 : No meter ; POD 62864 WNV.

Alfalfa, wheel line.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 67150

WELL: YES NO

METER SER NO: 225949

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 0801810

PHOTO: YES NO

ACRES IRR: _____

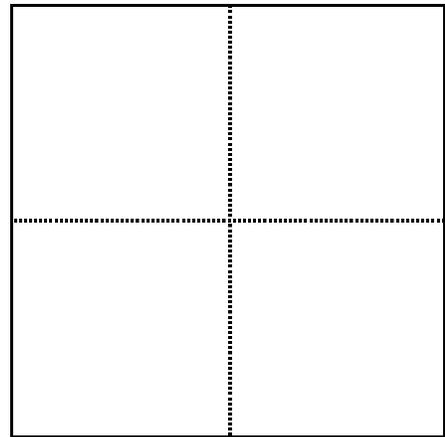
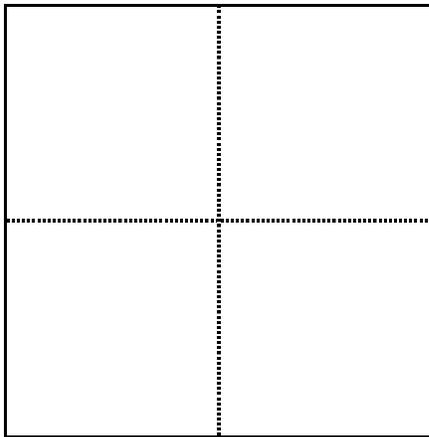
BENEFICIAL USE: YES NO

PORTION ALL TYPE Quasi-Municipal

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Not using current meter after 10-23-14.

New meter in R.O. house SN 2315002 ; RD 0801810; 10-14-15.

Two pumps in well; one serves fire hydrant and other serves R.O. house and tank.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 69870

WELL: YES NO

METER SER NO: 70807806

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 07949300

PHOTO: YES NO

ACRES IRR: 0.0

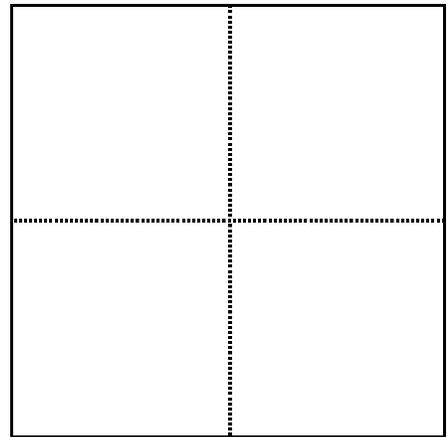
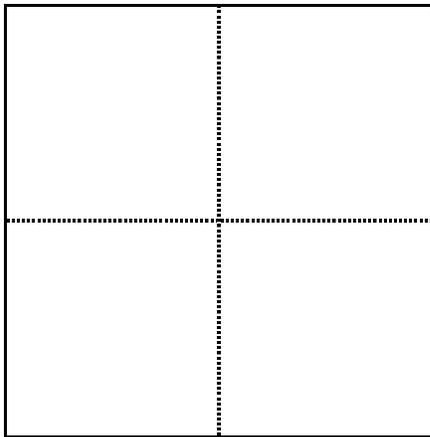
BENEFICIAL USE: YES NO

PORTION ALL TYPE _____

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Dust control for arenas

RD - 03116600 - 10-9-13; RD - 06331500 - 10-24-14.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 70505

WELL: YES NO

METER SER NO: 71081638

PUMP: YES NO

PUMP TYPE: _____

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 34911100

PHOTO: YES NO

ACRES IRR: 1.37

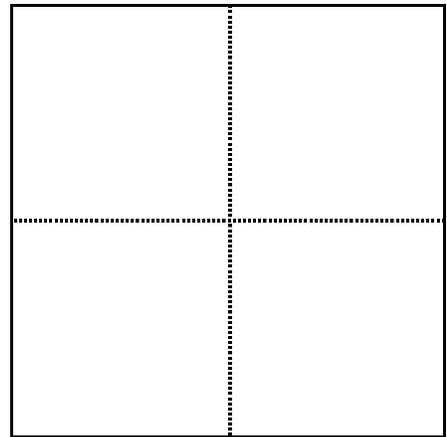
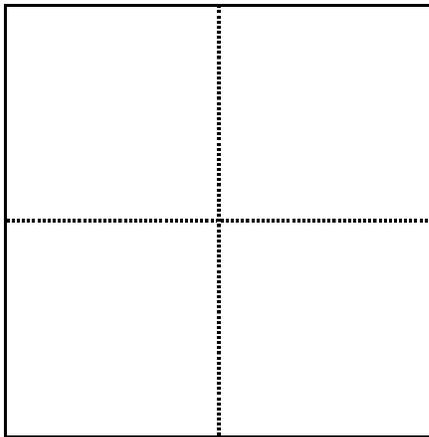
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: RD- 18938900 - 10-9-13, RD- 29214200 - 10-24-14.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 74652

WELL: YES NO

METER SER NO: 10-005401

PUMP: YES NO

PUMP TYPE: _____

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 02749600

PHOTO: YES NO

ACRES IRR: 1.08

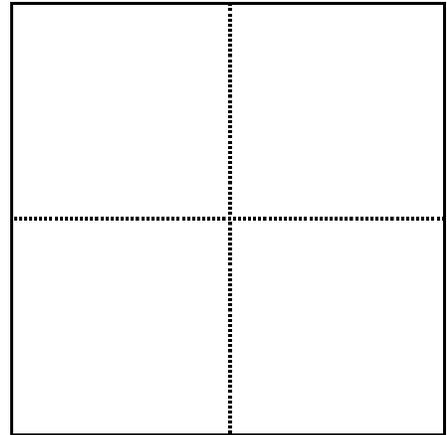
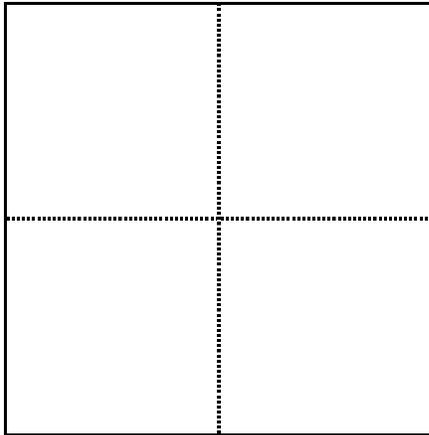
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Well east of house

RD- 01853500 -10-9-13; RD- 02263200 - 10-24-14.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

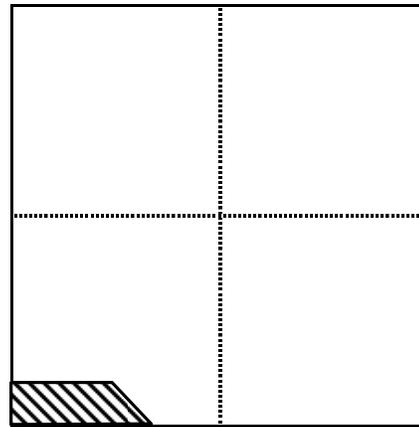
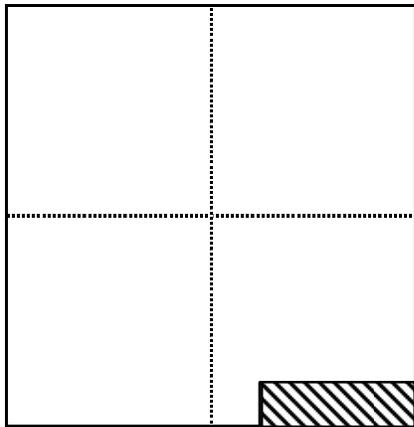
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209 PERMIT NO: 74653 & 78582
 WELL: YES NO METER SER NO: _____
 PUMP: YES NO PUMP TYPE: _____
 MOTOR: YES NO MOTOR TYPE: _____
 METER: YES NO METER READ: _____
 PHOTO: YES NO ACRES IRR: 3.00
 BENEFICIAL USE: YES NO PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

NE 1/4 NE 1/4 SEC 17

NW 1/4 NW 1/4 SEC 16



REMARKS: Well has 2 meters.

74653: S/N 10-005402, RD - 04077500 - 10-14-15, new mtr installed April '15 initial reading zero.

78582: S/N 10-0008495, RD - 3015020 10-24-14; RD - 3231100 - 10-14-15, moisture in meter.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 78891

WELL: YES NO

METER SER NO: 47281155

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 19913100

PHOTO: YES NO

ACRES IRR: 3.53

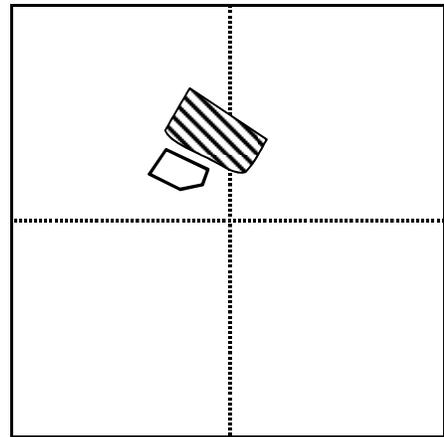
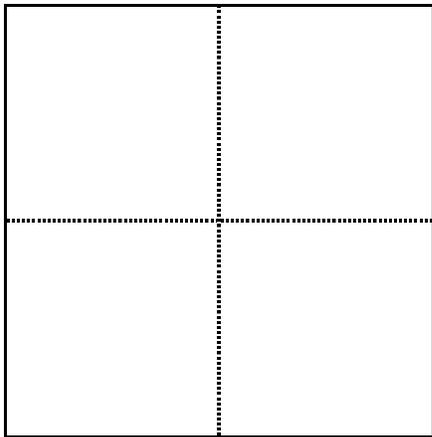
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 **SW** 1/4 SEC **16**



REMARKS: RD - 18812600 - 10-09-13; RD - 19365300 - 10-24-14.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 79034 & 79035

WELL: YES NO

METER SER NO: 11-00769-04

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 907258 * .001 AF

PHOTO: YES NO

ACRES IRR: 25.32

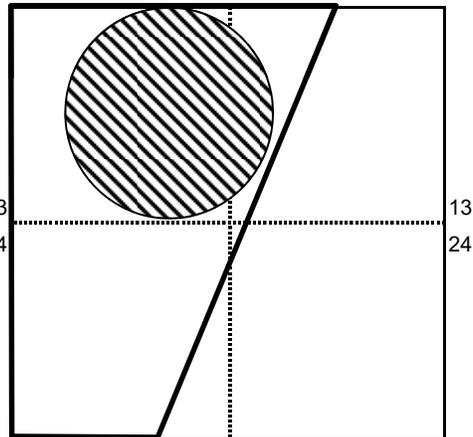
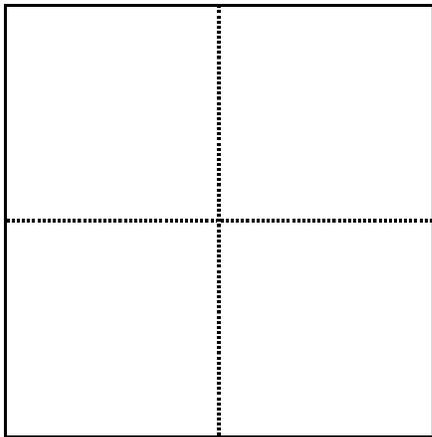
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

S2 1/4 SE 1/4 SEC 13
N2 1/4 NE 1/4 SEC 24



REMARKS: Alfalfa. Pumping 200 gpm.

RD - 765500 10-24-14.

SIGNATURE: _____

Christi Cooper

DATE: _____

10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 79132 & 80873-T

WELL: YES NO

METER SER NO: 090207504

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 0129374000

PHOTO: YES NO

ACRES IRR: 10.0

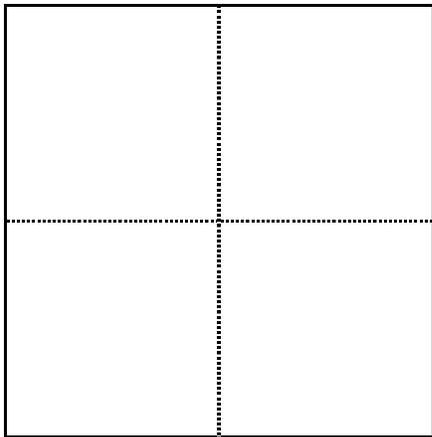
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

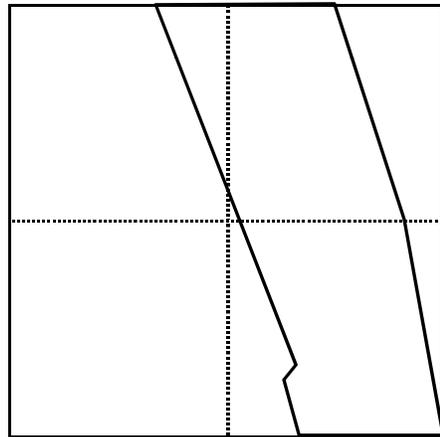
IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 E 1/2 NW 1/4 SEC 18
 W 1/2 NE 1/4 SEC 18



 - IRR



REMARKS: RD - 0046034000 - 10-9-13; RD - 0088698000 - 10-24-14.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 79197

WELL: YES NO

METER SER NO: 09012877

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: _____

PHOTO: YES NO

ACRES IRR: 9.38

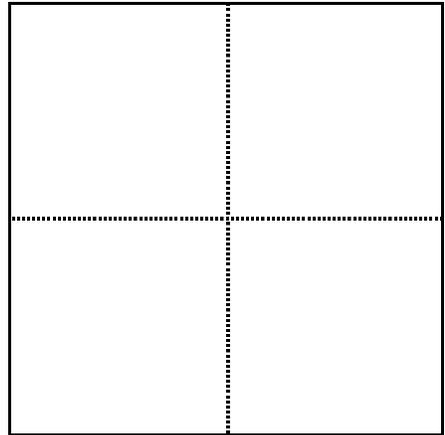
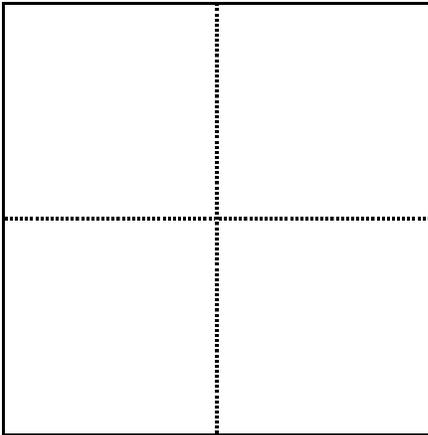
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: 4.0 AF/acre. Meter has moisture inside face, can not read meter.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209 PERMIT NO: 79484, 79485, 81872, 81873, 81874 & 81875

WELL: YES X NO METER SER NO: See Remarks

PUMP: YES X NO PUMP TYPE: Straight shaft

MOTOR: YES X NO MOTOR TYPE: Electric

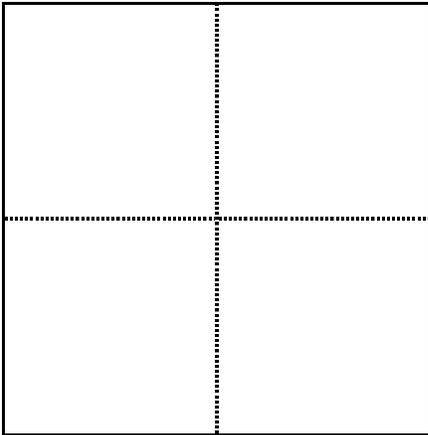
METER: YES X NO METER READ: See Remarks

PHOTO: YES NO X ACRES IRR: 300.28

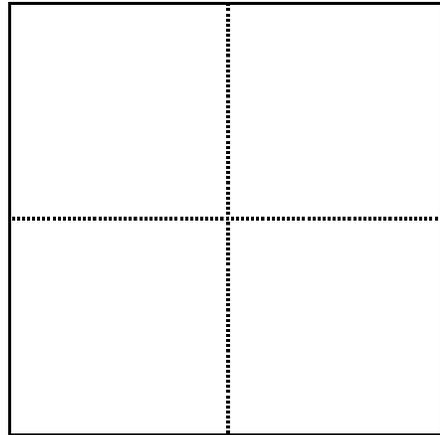
BENEFICIAL USE: YES X NO PORTION ALL X TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC



 1/4 1/4 SEC



REMARKS: Top 3 pivots of corn, bottom pivot of alfalfa in 2015.

POD 80627: S/N GP11-1063-10; RD - (2)728259 x 0.001 AF - 10-14-15

POD 80628: S/N GP11-1062-8; RD - (1)647150 x 0.001 AF - 10-14-15

POD 79484 & 79485: S/N GP11-1058-8; RD - (1)240719 x 0.001 AF - 10-14-15

SIGNATURE: Christi Cooper DATE: 10/14/2015

PUMPAGE INVENTORY FIELD REPORT

79486, 79487, 79488
79490, 81869,
81870 & 81871

BASIN NO: 209

PERMIT NO: _____

WELL: YES NO _____

METER SER NO: See Remarks

PUMP: YES NO _____

PUMP TYPE: Straight shaft

MOTOR: YES NO _____

MOTOR TYPE: Electric

METER: YES NO _____

METER READ: See Remarks

PHOTO: YES _____ NO

ACRES IRR: 285.86

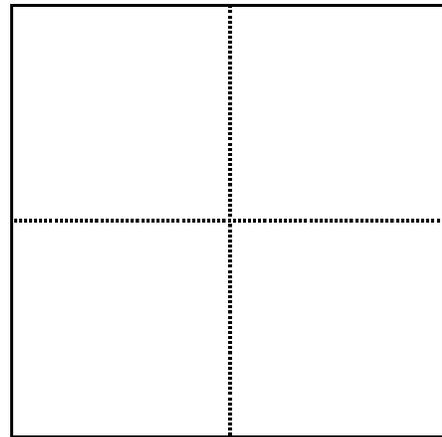
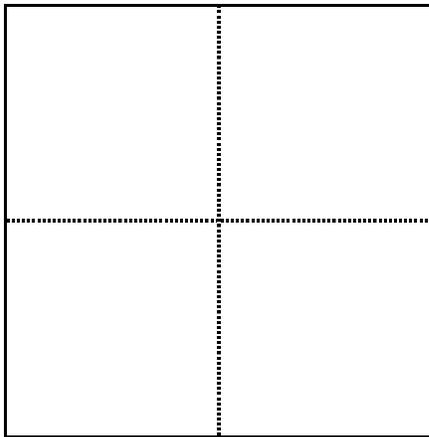
BENEFICIAL USE: YES NO _____

PORTION _____ ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

____ 1/4 ____ 1/4 SEC ____

____ 1/4 ____ 1/4 SEC ____



REMARKS: POD 79486 & 87: S/N GP11-1060-10; RD - (2)365904 x 0.001 AF - 10-14-15.

POD 79488: S/N GP11-1059-8; RD - (1)503346 x 0.001 AF - 10-14-15.

POD 79489: S/N 14-13295-10; RD - (1)052085 x 0.001 AF - 10-14-15.

POD 79490: S/N GP11-1057-6; RD - 899612 x 0.001 AF - 10-14-15. Alfalfa pivots.

SIGNATURE: Christi Cooper

DATE: 10/14/2015

