

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF WATER RESOURCES

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PAHRANAGAT VALLEY (HYDROGRAPHIC BASIN 13-209)

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2013

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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 Pahrnagat Valley, Hydrographic Basin 13-209, for water year 2013 (October 1, 2012 through September 30, 2013). Also included are data associated with depth to groundwater.

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

For water year 2013 the permitted, certificated and claims of vested right groundwater rights totaled **14,319 acre-feet**. Estimated pumpage for the water year was **5,784 acre-feet**. Irrigation is the largest manner of use within the basin. For water year 2013, appropriations for irrigation totaled 11,036 acre-feet and pumpage was 5,258 acre-feet. The next largest manner of use was municipal with appropriations totaling 1,089 acre-feet and pumpage was 279 acre-feet. The next largest manner of use was pumping by exempt domestic wells, at 114 acre-feet. Exempt domestic wells are defined by Nevada Revised Statues 534.013 and do not require a permit issued by the State Engineer.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER..... 209, REGION 13

HYDROGRAPHIC BASIN NAME PAHRANAGAT VALLEY

COUNTIES..... LINCOLN

COMMUNITIES HIKO, ALAMO

DESIGNATED YES

DENIALS BASED UPON WATER AVAILABILITY IRRIGATION

GROUNDWATER LEVEL MEASUREMENTS NDWR

ESTIMATED PUMPAGE INVENTORY, ACRE-FEET IN 2013 5,784*

STATE ENGINEER'S ORDERS
[1199](#) - DESIGNATION APRIL 20, 2009

COMMITTED GROUNDWATER RESOURCE: 14,319 ACRE-FEET..DATE: JUNE 2013

IRRIGATION 11,037 WILDLIFE 2,092 MUNICIPAL 1,089

STOCKWATER 61 COMMERCIAL 39 QUASI-MUNICIPAL .. 2

NOTE: Committed groundwater resource data are accurate for June 2013. 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.

*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 was estimated by a query of the [Nevada Division of Water Resources' Well Log Database](#) and is approximately 114.

PURPOSE AND SCOPE

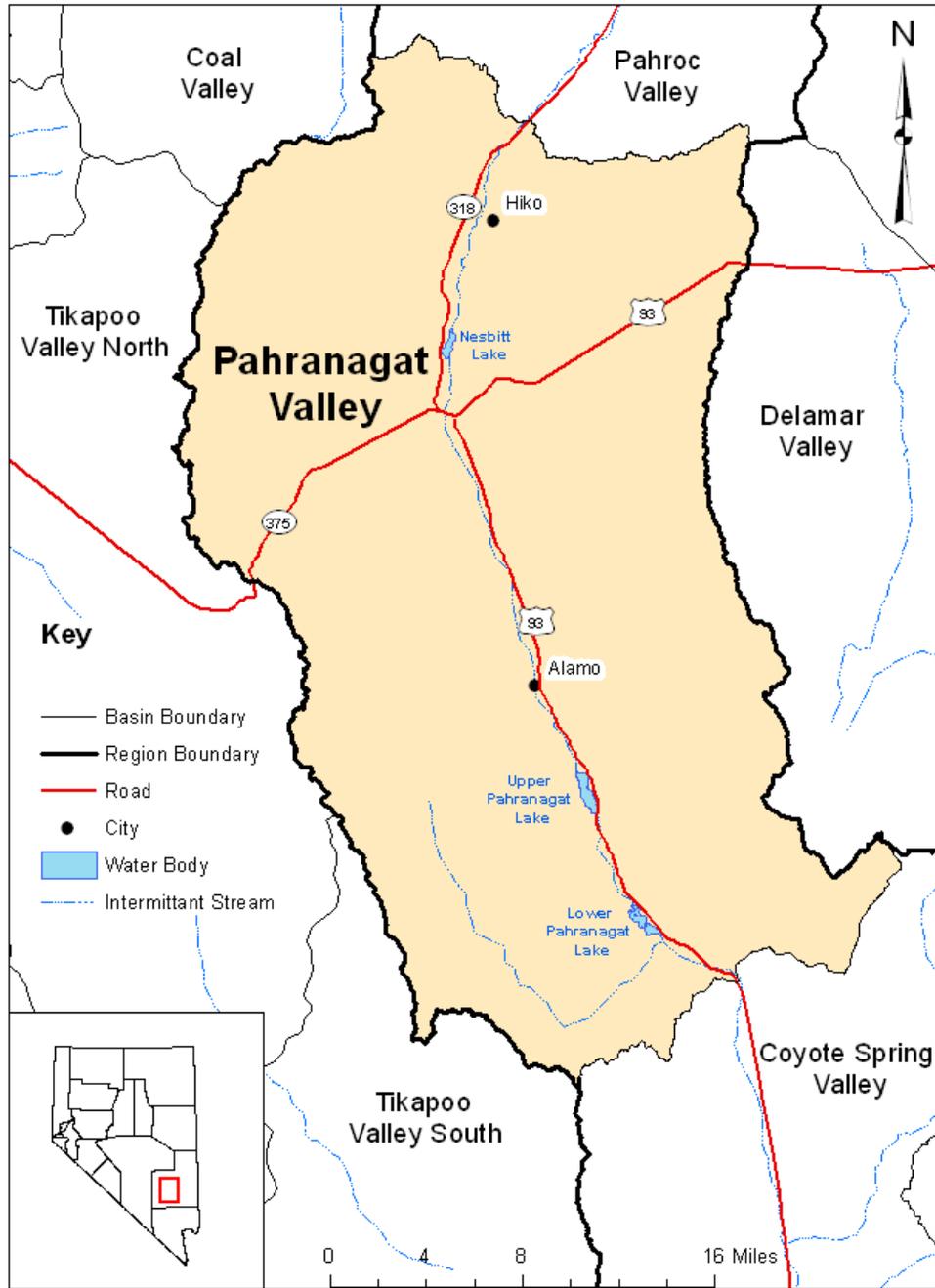
The purpose of this report is to inventory all of the groundwater resources allocated and described by the Office of the State Engineer, Nevada Division of Water Resources, and to estimate the amount of groundwater pumped within the Pahrnagat Valley Hydrographic Basin 13-209, for the water year beginning October 1, 2012 and ending September 30, 2013 (hereafter referred to as water year 2013). This report estimates the amount of groundwater pumped under the permits and certificates issued by the State Engineer, claims of vested right, and the amount pumped by exempt domestic wells within the basin. Associated information, such as groundwater level measurements are also presented.

DESCRIPTION OF THE STUDY AREA

Pahrnagat Valley is a basin located in central eastern Nevada. The valley is approximately 45 miles west of Caliente, Nevada, and is within the Colorado River Hydrographic Region. The basin is located within Lincoln County (see Figure 1).

Pahrnagat Valley is bounded on the west by the Mount Irish and Pahrnagat Ranges and on the east by the Hiko and Pahroc Ranges. The north is bounded by the Pahrnagat and 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 and Delamar Ranges. A gap through these hills is where Maynard Lake exists, the lowest elevation in this southward sloping valley, at around 3,120 feet. The adjacent Nevada hydrographic basins are as follows: 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.

FIGURE 1 LOCATION MAP OF PAHRANAGAT VALLEY HYDROGRAPHIC BASIN 13-209



HYDROLOGY

SPRINGS

There is a substantial amount of water discharged from carbonate rocks within Pahranaagat 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 Pahranaagat (upper and lower), Frenchie, and Nesbitt lakes (see Figure 1).

The U.S. Geological Survey (USGS) operates streamflow gaging stations on Crystal and Ash Springs.

The Southern Nevada Water Authority (SNWA) monitors the flow from Hiko Springs through a sonic flow meter installed on the 18” diameter discharge pipe located southwest of the spring.

GROUNDWATER LEVELS

Depths to groundwater in Pahranaagat Valley have been measured by the Nevada Division of Water Resources semi-consistently since the mid 1960's and then consistently since the mid 1980's. There are seven (7) active sites and three (3) inactive sites in the monitoring well network. The following are the site names and links to the data (refer to Figure 2 for monitoring well locations):

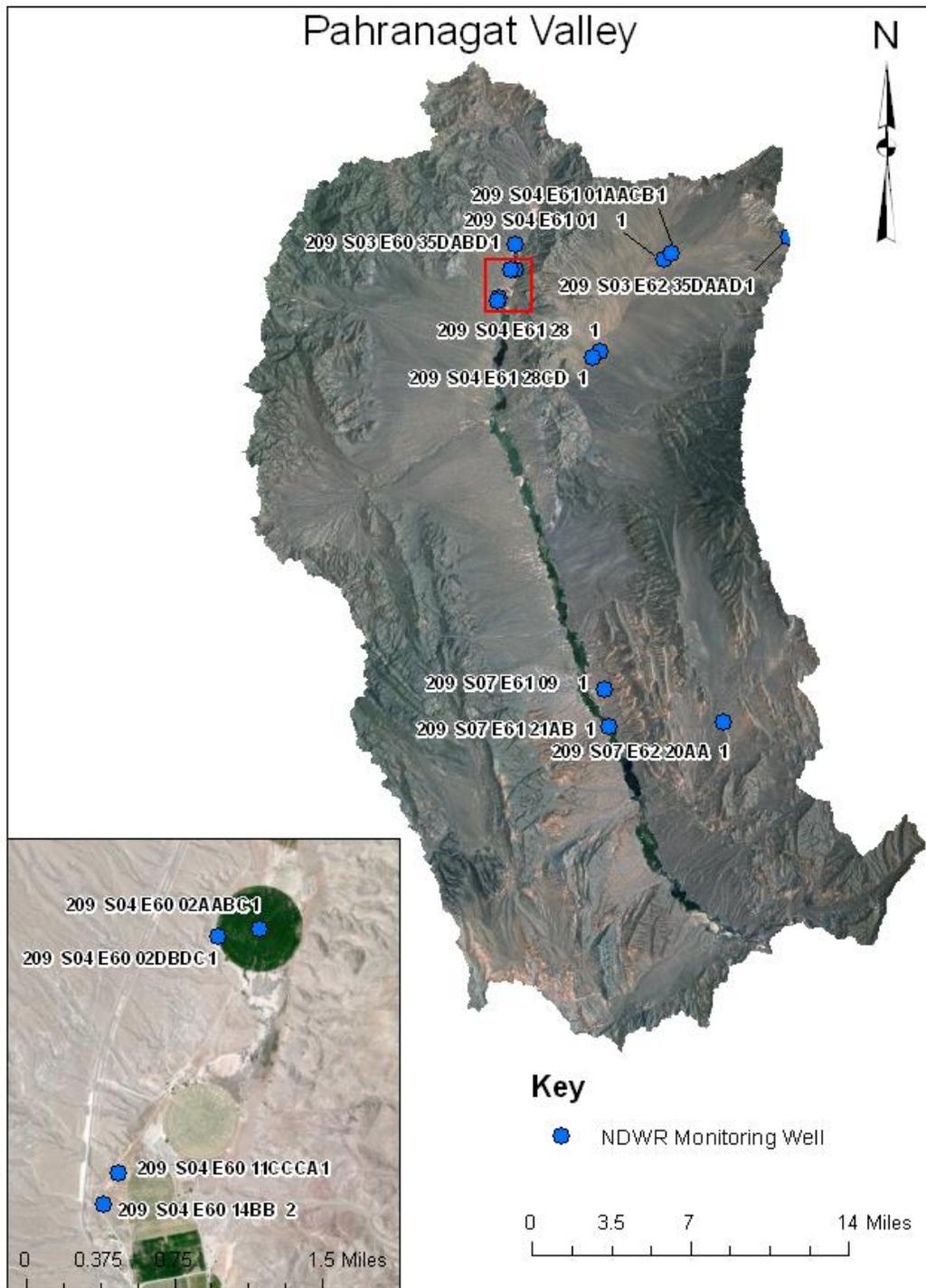
[209 S03 E60 35DABD1](#)
[209 S04 E60 02AABC1](#)
[209 S04 E60 02DBDC1](#)

[209 S04 E60 11CCCA1](#)
[209 S04 E60 14BB 2](#)

[209 S07 E61 09 1](#)
[209 S07 E61 21AB 1](#)

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

**FIGURE 2 MONITORING WELL LOCATION MAP OF PAHRANAGAT VALLEY
HYDROGRAPHIC BASIN 13-209**



METHODS TO ESTIMATE PUMPAGE

This report estimates the amount of groundwater pumped under the permits and certificates issued by the Nevada State Engineer as well as claims of vested right and exempt domestic wells in the Pahranaagat Valley Hydrographic Basin. The following methods were used to arrive at the estimated use:

- Where totalizing meters are 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 meters were not in place, use was irrigation, and the number of hours the well was operated was unknown an inspection of the place of use was done to estimate the amount of acreage under cultivation. The number of acres under cultivation was then multiplied by a duty of 5 acre-feet per acre to estimate the use.
- 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.
- If no water was used under the certificate, permit or claim, zero use was recorded.
- 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 and are limited to a maximum of 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 is determined by a query of the Nevada Division of Water Resources' Well Log Database. The amount of water pumped by exempt domestic wells is estimated to be 1.0 acre-foot per well in Pahranaagat Valley.

PUMPAGE BY MANNER OF USE

Note that all data herein are estimates and are subject to revision. The total estimated groundwater pumpage for water year 2013 was **5,784 acre-feet**. The annual duties of the certificates, permits and claims of vested right within the Pahrnagat Valley Hydrographic Basin totaled **14,319 acre-feet**. The appropriated and actual pumped totals, categorized by manner of use, are as follows:

A. Irrigation (IRR)

During water year 2013, appropriations for irrigation purposes totaled 11,036 acre-feet in the basin. An estimated 5,258 acre-feet of groundwater was pumped during water year 2013.

B. Municipal (MUN)

During water year 2013, appropriations for municipal purposes totaled 1,089 acre-feet in the basin. An estimated 279 acre-feet of groundwater was pumped during water year 2013.

C. Wildlife (WLD)

During water year 2013, appropriations for wildlife purposes totaled 2,092 acre-feet in the basin. An estimated 92 acre-feet of groundwater was pumped during water year 2013.

D. Stockwater (STK)

During water year 2013, appropriations for stockwater purposes totaled 61 acre-feet in the basin. An estimated 12 acre-feet of groundwater was pumped during water year 2013.

E. Commercial (COM)

During water year 2013, appropriations for commercial purposes totaled 39 acre-feet in the basin. An estimated 28 acre-feet of groundwater was pumped during water year 2013.

F. Quasi-Municipal (QM)

During water year 2013, appropriations for quasi-municipal purposes totaled 2 acre-feet in the basin. An estimated 1 acre-feet of groundwater was pumped during water year 2013.

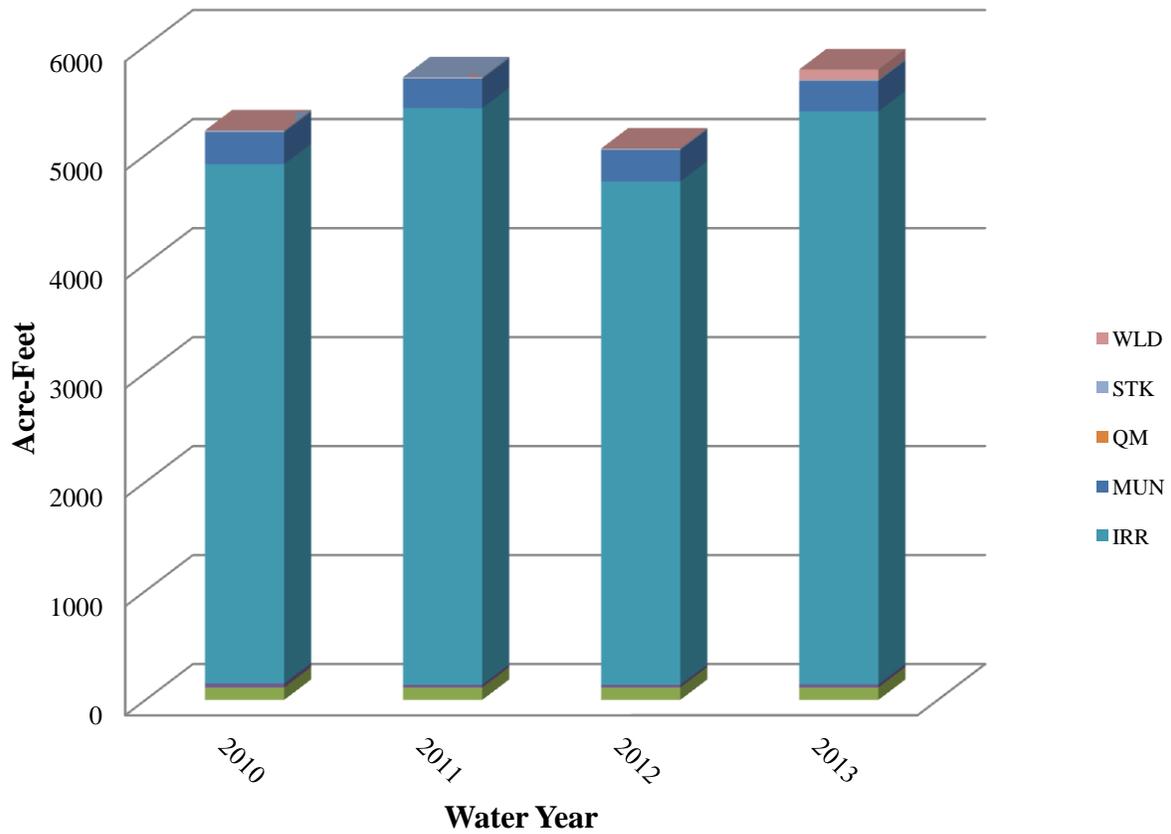
APPENDIX A

PAHRANAGAT VALLEY HISTORICAL PUMPAGE

HISTORICAL GROUNDWATER PUMPAGE BY MANNER OF USE

YEAR	COM	DOM	IRR	MUN	QM	STK	WLD	TOTAL
2010	37	114	4765	293	3	13	0	5225
2011	25	114	5291	269	2	12	0	5712
2012	24	114	4618	290	1	12	0	5059
2013	28	114	5258	279	1	12	92	5784

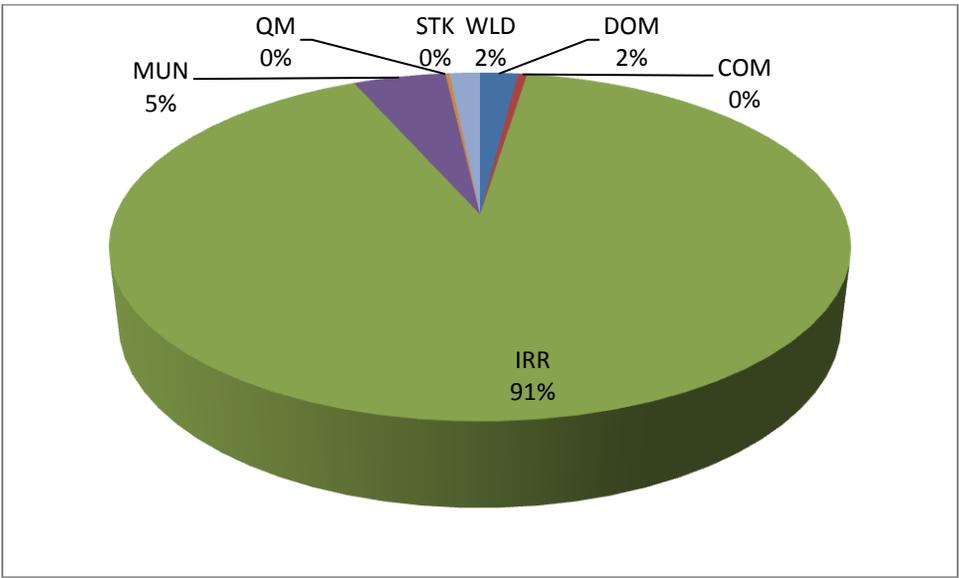
All values are in acre-feet



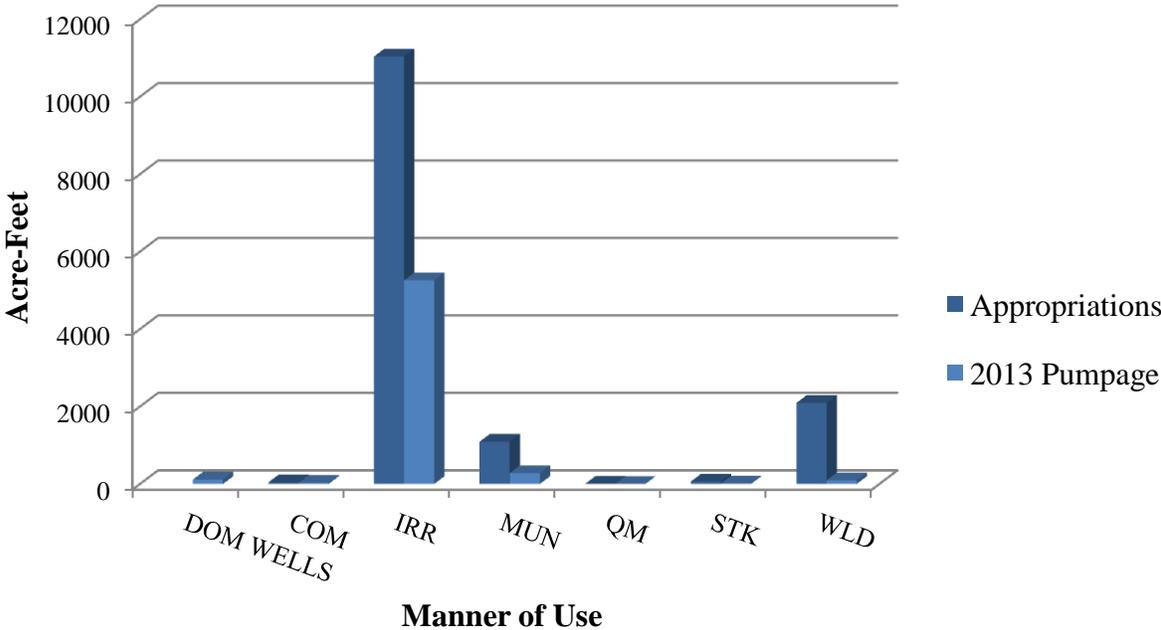
APPENDIX B

**PAHRANAGAT VALLEY GROUNDWATER PUMPAGE FOR WATER YEAR 2013
BY MANNER OF USE**

**PERCENTAGE OF GROUNDWATER PUMPAGE WATER YEAR 2013
BY MANNER OF USE**



**GROUNDWATER PUMPAGE WATER YEAR 2013
APPROPRIATIONS vs. ACTUAL PUMPAGE**



APPENDIX C

**PAHRANAGAT VALLEY GROUNDWATER PUMPAGE INVENTORY
FOR WATER YEAR 2013**

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 The number of acres irrigated or the manner of use of the appropriated water. The types of manner of use may include:
- 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
2013**

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	278.62	POD 12898: S/N 822412 Well 5
30161	Abr.				12						RD - 3618180 - 10-09-13
30162	Permit				6	6	61				POD 30162: WV, capped
45908	Permit				7						POD 30162: S/N 1379689 Well 3
45909	Permit				18-20						RD - 09891400 - 10-09-13
54514	Permit				29-32						POD 45908: S/N 6979060 Well 6
55533	Permit				1	7	60				RD - 39625000 - 10-09-13
80337	Permit				12						POD 45909: S/N 9661116 Well 4
81758	Permit				4-9	7	61				RD - 75176600 - 10-09-13
					16-17						POD 54514: S/N 0004453 Well 1
					21-22						RD - 39396000 - 10-09-13
				27-28			POD 55533: S/N 9867636 Well 2				
				34-35			RD - 58734400 - 10-09-13				
				2	8	61	POD 80337: S/N M165932612 Sandhill				
				3			RD - 000065579600 - 10-09-13				
				10			POD 81758: S/N M165922612				
				11			RD - 000007189500 - 10-09-13				

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209
2013**

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				
19475	Cert.	Schofield	NE	NE	34	4	60	4.50	0.00	0.00	Domestic use
			SE	NE				<u>10.20</u>	<u>0.00</u>		
			TOTAL						14.70		
25906	Cert.	Wildlife Dept.	NE	SE	22	4	60	1.70		45.70	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 Frenzy & 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>	WLD					
TOTAL						124.00	124.00				
26638	Cert.	Leo Stewart	SW	SE	8	7	61	10.00	0.00	63.50	5.0 Ac-Ft/Ac 5.0 Ac-Ft/Ac 3.0 Ac-Ft/Ac 3.0 Ac-Ft/Ac Well used for 81252-T
81252-T	Exp.		NW	NE	17			39.17	7.30		
			NE	NE				27.09	9.00		
			SE	NE				<u>40.00</u>	<u>0.00</u>		
			TOTAL						116.26		
28296	Cert.	Gifford			32	6	61	29.85	0.00	0.00	

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209
2013**

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
28642	Cert.	LDS Church	NE	NW	10	5	60	5.00	5.00	Cert. under 28642 for 120 acres	
35256	Cert.	Alice Davis	SE	NW	10			39.00	39.00		
52120	Cert.		NE	SW	10			35.00	20.00	POU includes Davis portion POU includes Davis portion	
			NW	NE	10			5.00	3.20		
			SW	NE	10			40.00	20.00		
			NW	SE	10			<u>40.00</u>	<u>20.00</u>		
			TOTAL						164.00	107.20	536.00
32354	Cert.	Keith Murray	SE	SW	11	4	60	12.44	9.50		
35054	Cert.	Whipple	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	475.00
35453	Cert.	Joe V. Higbee	NW	SW	32	6	61	8.00	8.00	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		Power meter removed	
			NW	NW	23			<u>9.00</u>			
			TOTAL						29.00		0.00

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209
2013**

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				
45759	Cert.	Buckhorn Ranch	NW	NE	21	7	61	27.41	27.41		1.0 acre orchard and garden
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	95.08		
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	20.00	
78099	Permit							13.00	COM	2.13	
			TOTAL								
48913	Cert.	Spencer	SW	SE	30	6	61	3.45	3.45	17.25	
53698	Cert.	Lange	NW	NE	31	6	61	5.00	5.00	38.32	
55918	Permit	Whipple	NE	SE	18	6	61	20.00	9.00		
			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	145.85	
55919	Permit	Whipple	NW	SW	18	6	61				24.6 acres within the described place of use WNV
			NE	SW	18						
			SE	SW	18						
			TOTAL					24.60	0.00	0.00	

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209
2013**

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				
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	7.97 <u>1.91</u> 9.88	7.50 <u>1.44</u> 8.94	22.35	7.5 acres NE SW supplemental to decree water @2.5 ac-ft/ac
59308	Cert.	LDS Church	NE	NW	10	5	60	7.86	STK	7.86	
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								A total of 1684.74 Ac-Ft
			14								Max 4 Ac-Ft/Yr from all sources
			15								
			23								Used for trees during the
			24								summer and to fill ponds
			25								
			31			8	62				
			32								
		4			9	62					
		5									
		TOTAL							WLD	46.25	

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209
2013**

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.	Hansen	NE	NE	34	4	60	16.52	16.52	82.60	Alfalfa
63238 67699	Cert. Cert.	Leadership Poss.	NE	NE	31	6	61	19.04	COM	22.66	POD 63238: S/N 9812822 RD - 50771300 - 10-23-12 RD - 54637700 - 10-09-13 POD 67699: S/N 58024425 RD - 26907100 - 10-23-12 RD - 30140400 - 10-09-13
67150	Cert.	U.S. Fish and Wild	SE	NE	10	8	61	0.92	QM	0.72	S/N 225949 RD - 0235990 - 10-09-13 Installed Nov. 2012
68412 78844	Cert. Permit	HT Cabins LLC Windmill Ridge, LLC	SE	SW	06	6	61	7.15	COM	3.11	S/N 49440233 RD - 8151080 - 10-23-12 RD - 9124760 - 10-09-13

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209
2013**

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	2.83	
70505	Permit	Davis	SW	NW	23	4	60	1.37	1.37	18.63	
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	1.19	
74653	Permit	Jensen	NW	NW	16	7	61	1.54	1.54		No use on QM (78582)
78582	Permit		NE	NE	17			<u>1.46</u>	<u>1.00</u>		
			TOTAL					3.00	2.54	4.19	4 AF/acre
78891	Permit	Herring	N2	SW	16	7	61	5.00	0.00	1.05	
79034	Permit	Stewart - Nevada Enterprises LLC	SE	SE	13	3	60				
79035	Permit		SW	SE							
			NE	NE	24						
			NW	NE							
			TOTAL					25.32	25.32	304.98	

**GROUNDWATER PUMPAGE INVENTORY
PAHRANAGAT VALLEY, NO. 209
2013**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE				ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T				
79132 80873-T	Permit Exp.	Whipple Trust	NE	NW	18	6	61			
			NW	NE						Temporary permit for construction water expired
			SW	NE						
			NW	SE						
			NE	SE						
			TOTAL				54.20	0.00	16.15	
79197	Permit	Herring	NW	NE	17	7	61	0.83	0.83	
			NE	NE				<u>8.55</u>	<u>8.55</u>	
			TOTAL				<u>9.38</u>	<u>9.38</u>	37.52	4 AF/acre
79484	Permit	Stewart - Nevada	SE	SE	13	3	60			
79485	Permit	Enterprises LLC	SW	SW	18	3	61			
80627	Abr		W2	NW	19					
80628	Abr		NW	SW	19					
81872	Permit			SE	24	3	60			
81873	Permit			NE	24					
81874	Permit			NE	25					
81875	Permit		TOTAL				300.28	300.28	1217.83	

APPENDIX D

**PAHRANAGAT VALLEY GROUNDWATER PUMPAGE INVENTORY FIELD NOTES
FOR WATER YEAR 2013**

2013

Pahranagat Valley

No. 209

Inventory Field Notes

compiled by

John Guillory, P.E. and Christi Emery

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

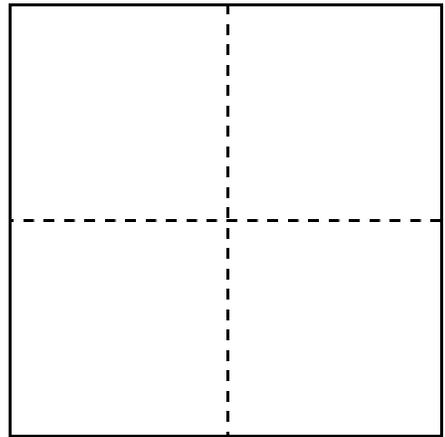
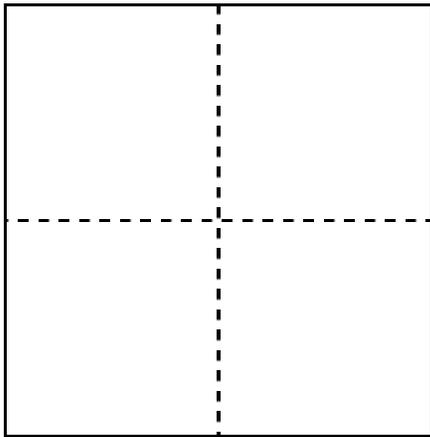
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: _____

SIGNATURE:  , P.E.

DATE: 10/9/2013

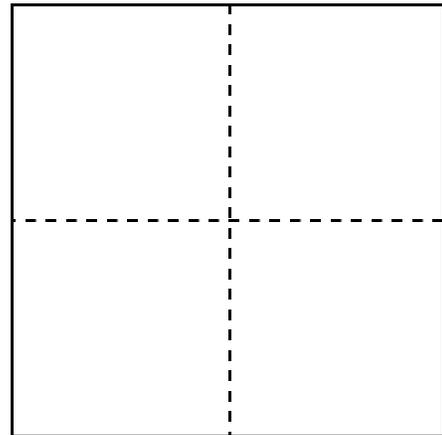
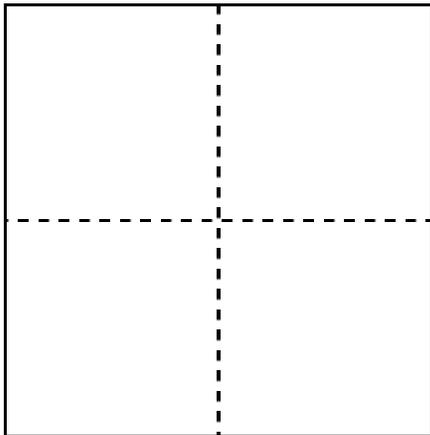
PUMPAGE INVENTORY FIELD REPORT

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): ran from September 1 through December 31 at 50 GPM. (50 gpm * 1440 min/day * 122 days) / 325,851 = 26.96 acre-feet.
POD 25913 (North well): ran from January 1 through September 30 at 60 GPM.
(60 gpm * 1440 min/day * 243 days) / 325,851 = 64.43 af. Info from refugee manager

SIGNATURE:  , P.E. DATE: 10/9/2013

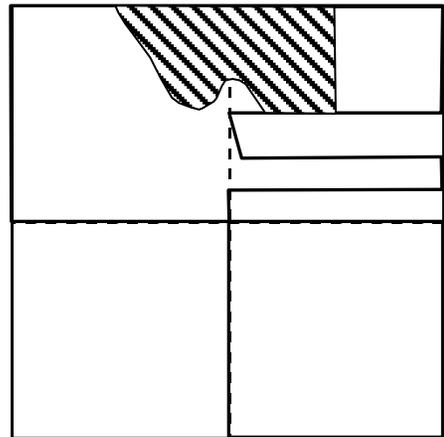
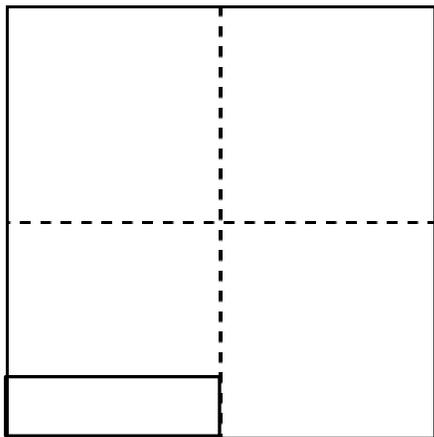
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: <u> 209 </u>	PERMIT NO: <u> 26638 </u>
WELL: YES <u> X </u> NO <u> </u>	METER SER NO: <u> 13-06029-06 </u>
PUMP: YES <u> X </u> NO <u> </u>	PUMP TYPE: <u> Straight shaft </u>
MOTOR: YES <u> X </u> NO <u> </u>	MOTOR TYPE: <u> Electric </u>
METER: YES <u> X </u> NO <u> </u>	METER READ: <u> 015850 x 0.001 AF </u>
PHOTO: YES <u> </u> NO <u> X </u>	ACRES IRR: <u> 16.30 </u>
BENEFICIAL USE: YES <u> X </u> NO <u> </u>	PORTION <u> X </u> ALL <u> </u> TYPE <u> Irrigation </u>

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 SE 1/4 SEC 8

 1/4 NE 1/4 SEC 17



REMARKS: Supplemental use credited @ 3.0 ac-ft/ac due to less surface water
 being delivered. Acreage adjusted from aerial photo. Acreage irrigated depicted
 above from well water; well was also pumped to water tank for dust control.

SIGNATURE:  , P.E. DATE: 10/9/2013

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: 0.00

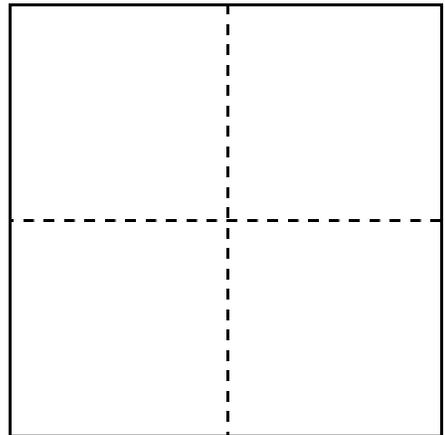
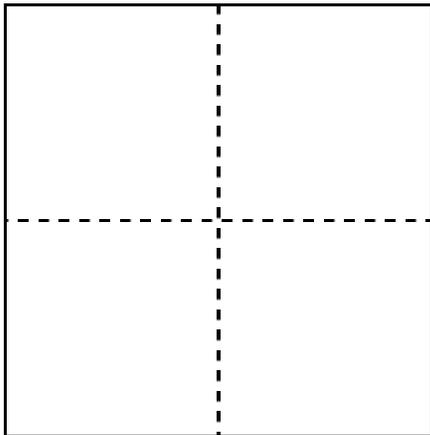
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: _____

SIGNATURE:  , P.E.

DATE: 10/9/2013

PUMPAGE INVENTORY FIELD REPORT

32354, 35054,
35055, 70990,

BASIN NO: 209

PERMIT NO: 72770 thru 72772

WELL: YES NO

METER SER NO: _____

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: 95.0

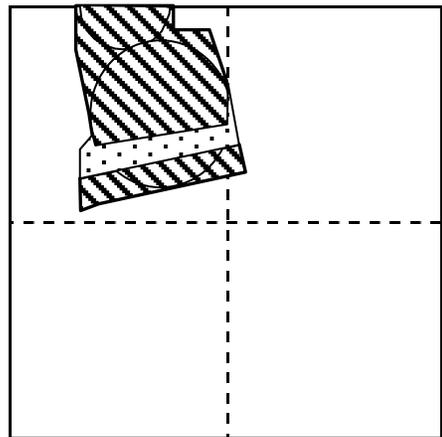
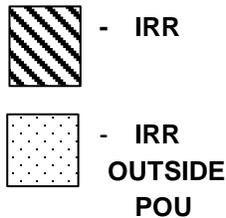
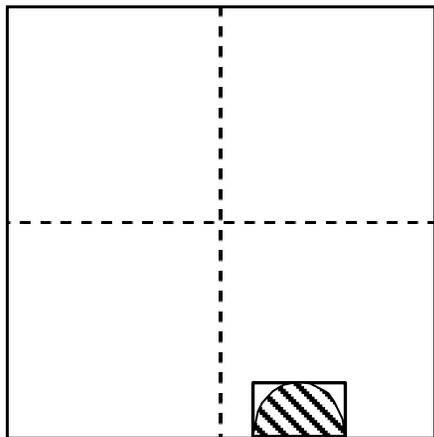
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC 11

 1/4 1/4 SEC 14



REMARKS: Approximately 20 acres irrigated outside the POU.

No Permit (South Well): SN 2007095206 meter removed

POD 35055 (Middle Well): SN 9974534; RD - 47327800 - 10-09-13 (meter broken)

POD 32354 & 35054 (North Well): SN 2007095306; RD - 222609000 - 10-09-13

SIGNATURE:  , P.E.

DATE: 10/9/2013

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

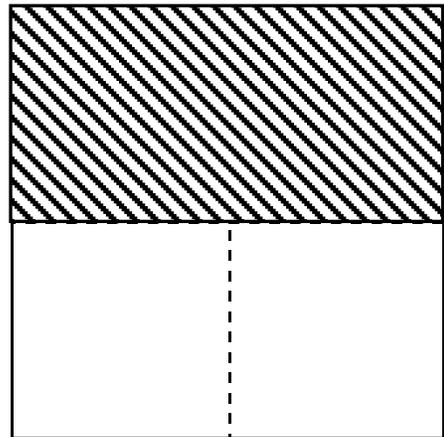
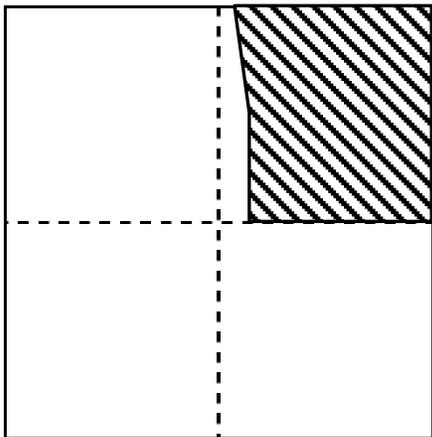
BENEFICIAL USE: YES NO

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

Credit @ 2.5 ac-ft/ac on supplemented portion

SIGNATURE:  , P.E.

DATE: 10/9/2013

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: 0.0

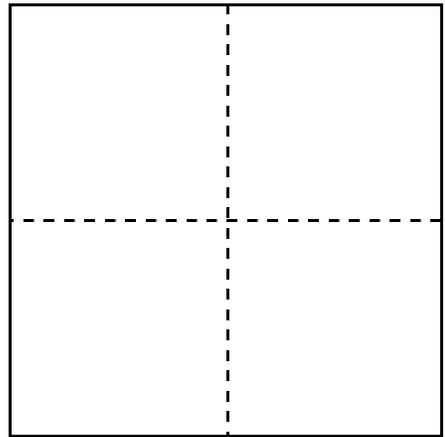
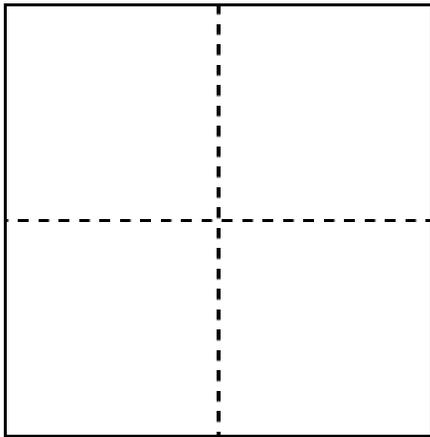
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



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

SIGNATURE: , P.E.

DATE: 10/9/2013

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: 156192 * .001 AF

PHOTO: YES NO

ACRES IRR: 87.49

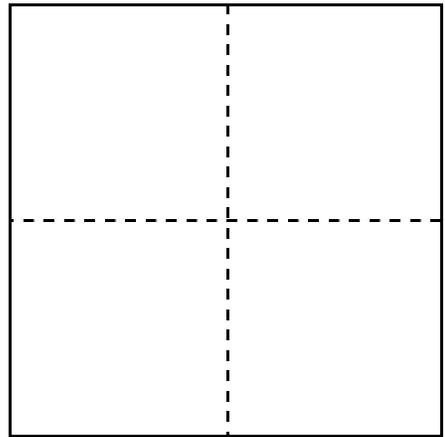
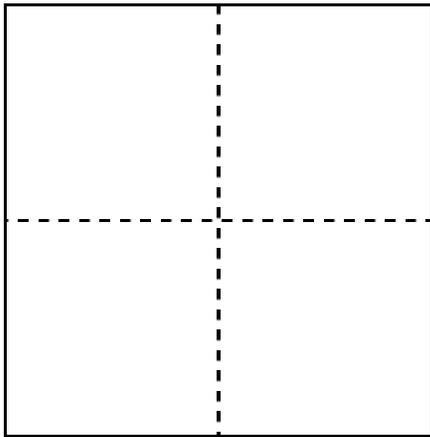
BENEFICIAL USE: YES NO

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

Approximately 1.0 acre of the 6.08 acre parcel in NW4 NE4 was irrigated as an orchard and garden. All other acreage irrigated. Portion of irrigation project on Alamo water.

SIGNATURE:  , P.E.

DATE: 10/9/2013

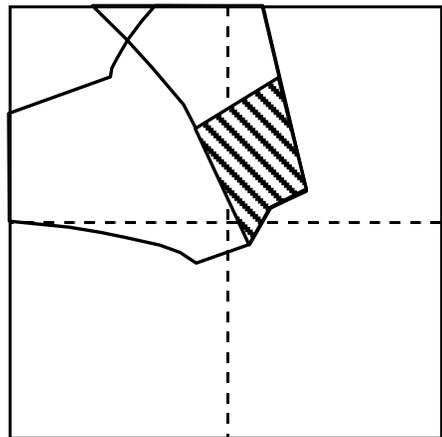
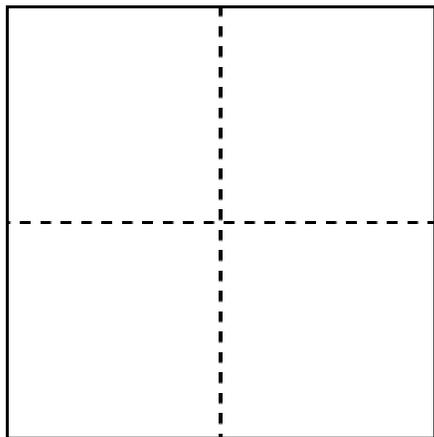
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: <u>209</u>	PERMIT NO: <u>48333 & 78099</u>
WELL: YES <u>X</u> NO <u> </u>	METER SER NO: <u>Green Neptune</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>1255800</u>
PHOTO: YES <u>X</u> NO <u> </u>	ACRES IRR: <u>4.0</u>
BENEFICIAL USE: YES <u>X</u> NO <u> </u>	PORTION <u>X</u> ALL <u> </u> 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 and mobile home. Resort in operation.

New main meter (detailed above) installed April 2012.

Digital GPI submeter: No S/N; RD - 9475960

Seametrics submeter: S/N 0805015751; RD - 16971000

SIGNATURE:  , P.E.

DATE: 10/9/2013

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 48913

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: 3.45

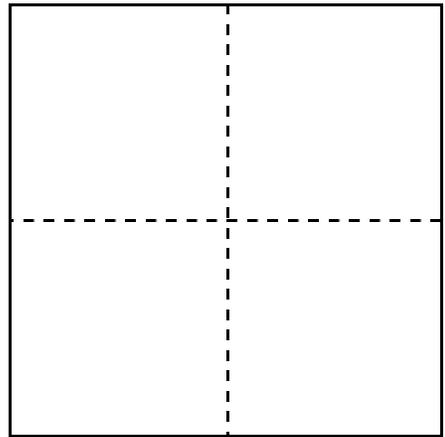
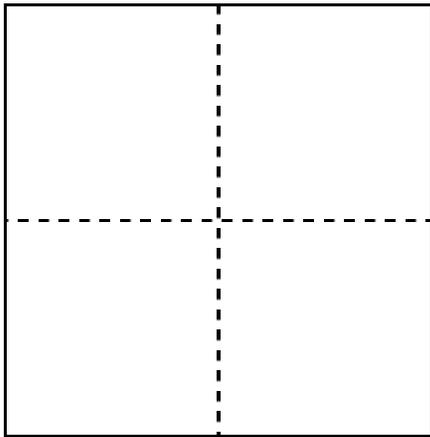
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Pumphouse locked.

SIGNATURE:  , P.E. DATE: 10/9/2013

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: 89384900

PHOTO: YES NO

ACRES IRR: 5.0

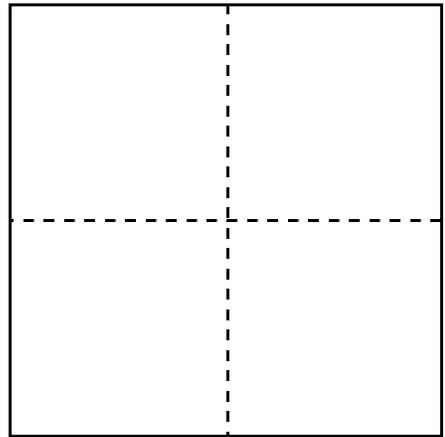
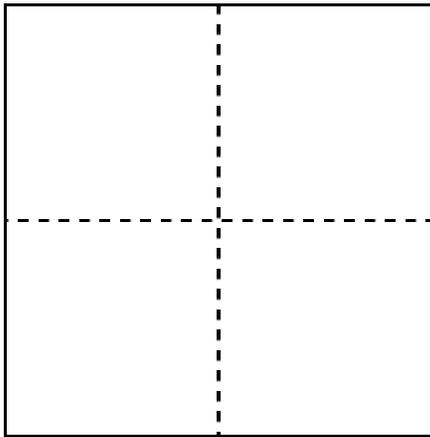
BENEFICIAL USE: YES NO

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

SIGNATURE: , P.E.

DATE: 10/9/2013

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

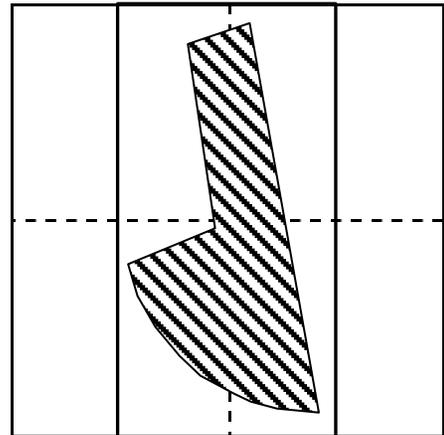
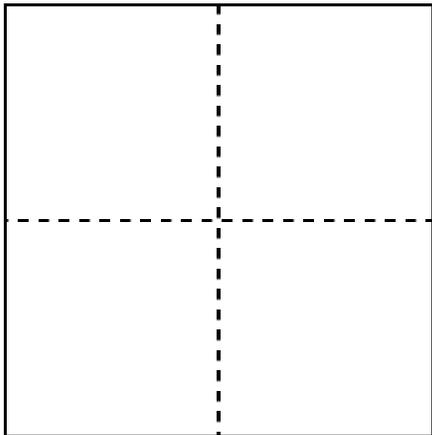
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 SE 1/4 SEC 18



REMARKS: _____

SIGNATURE:  , P.E.

DATE: 10/9/2013

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

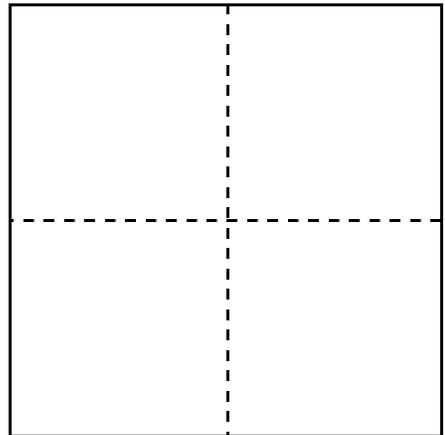
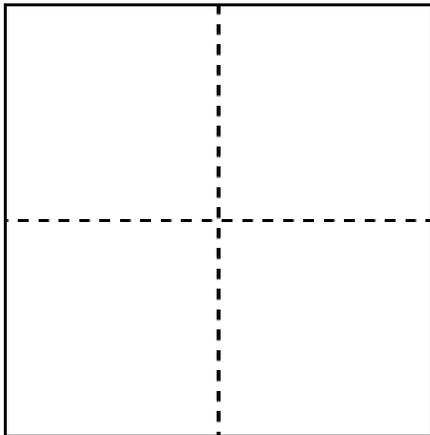
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: WNV

SIGNATURE:  , P.E.

DATE: 10/9/2013

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 55920

WELL: YES NO

METER SER NO: 09-02076-04

PUMP: YES NO

PUMP TYPE: Submersible

MOTOR: YES NO

MOTOR TYPE: _____

METER: YES NO

METER READ: 00002700

PHOTO: YES NO

ACRES IRR: 0.0

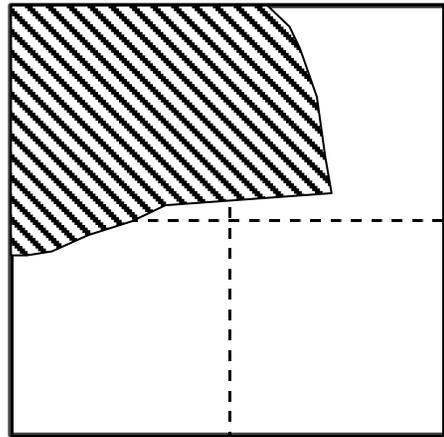
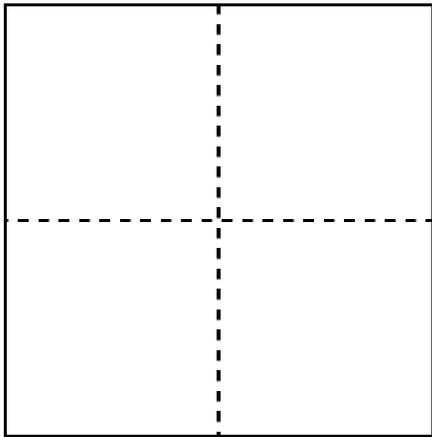
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

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: , P.E.

DATE: 10/9/2013

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

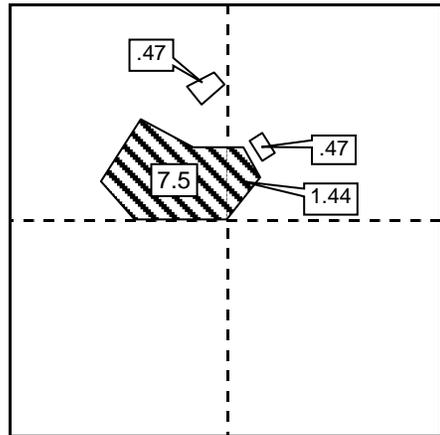
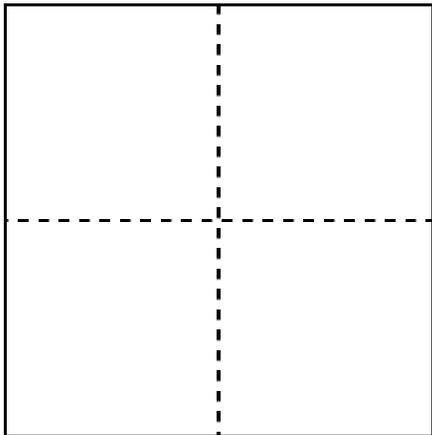
BENEFICIAL USE: YES NO

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.

SIGNATURE: , P.E.

DATE: 10/9/2013

PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 209

PERMIT NO: 59308

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: _____

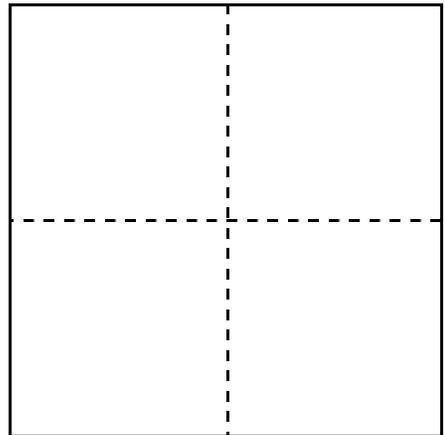
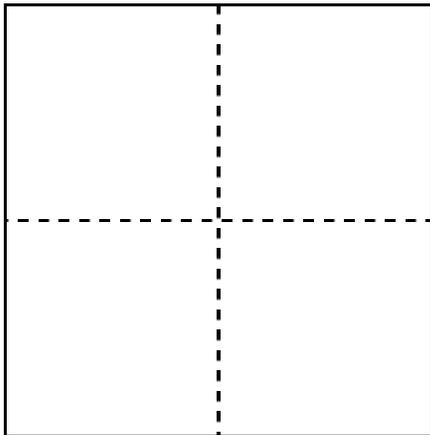
BENEFICIAL USE: YES NO

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

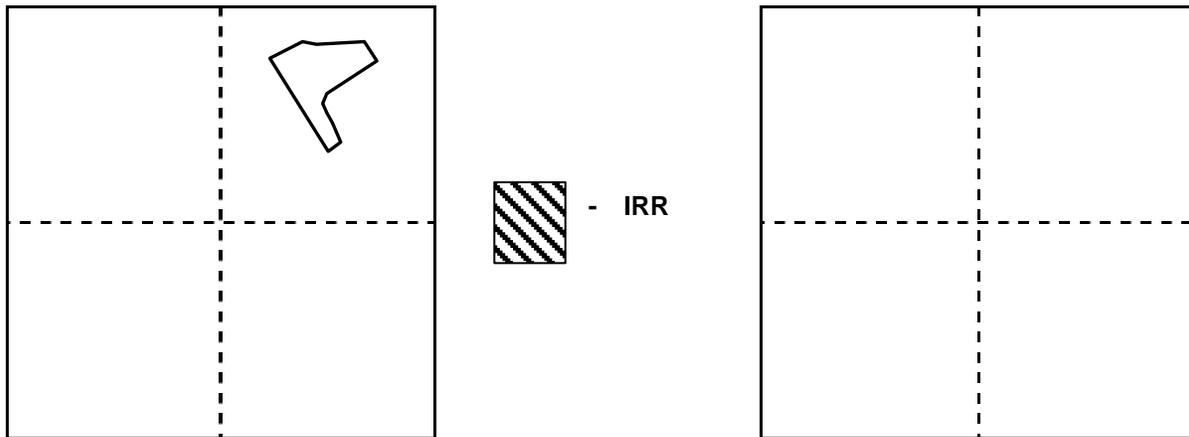
SIGNATURE:  , P.E. DATE: 10/9/2013

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 Irrigation

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:  , P.E. DATE: 10/9/2013

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 X NO

MOTOR TYPE:

METER: YES X NO

METER READ: See Remarks

PHOTO: YES NO X

ACRES IRR:

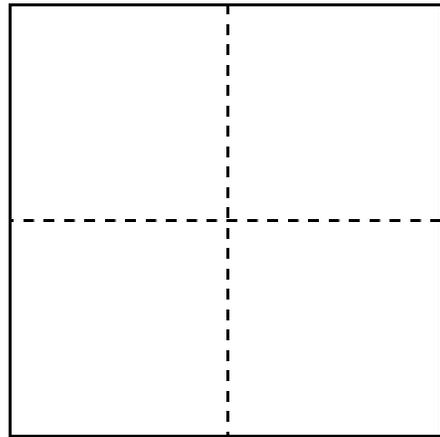
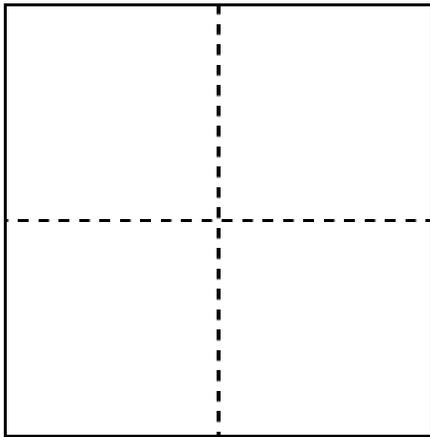
BENEFICIAL USE: YES X NO

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, aka well No. 2): S/N 94416215, RD - 98316500 - 10-09-13

POD 62440 (South well, aka well No. 1): S/N 133159, RD - 20372700 - 10-09-13

South well meter is approx. 50 feet east of wellhead

SIGNATURE:  , P.E.

DATE: 10/9/2013

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

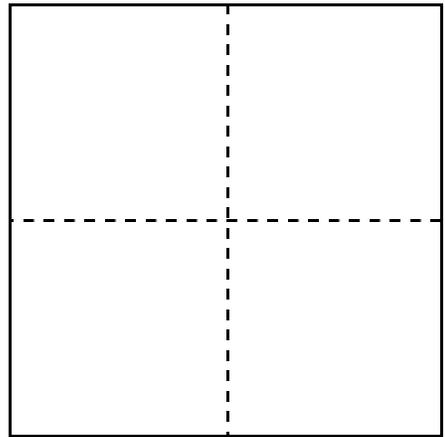
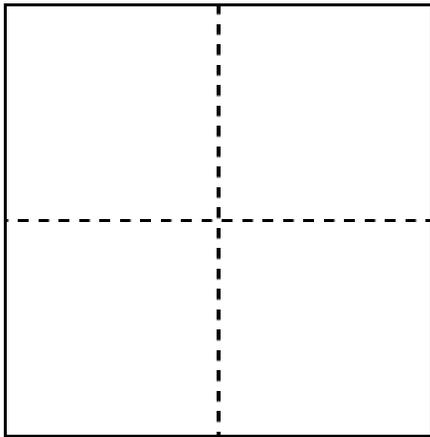
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: _____

SIGNATURE:  , P.E.

DATE: 10/9/2013

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: 0235990

PHOTO: YES NO

ACRES IRR: _____

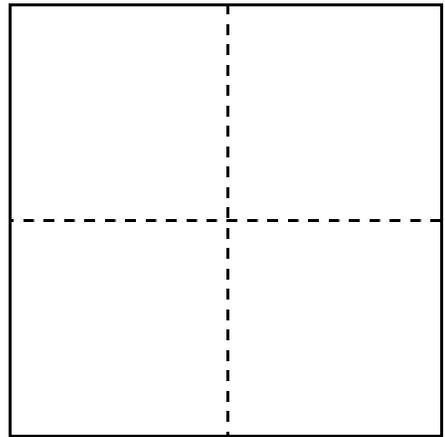
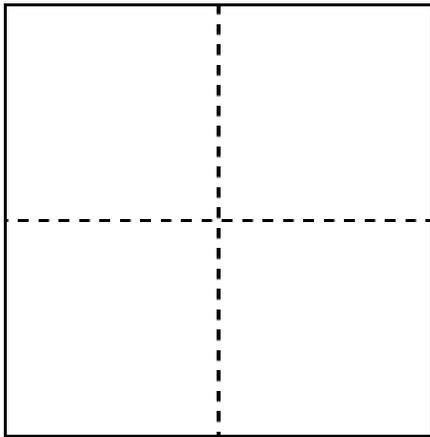
BENEFICIAL USE: YES NO

PORTION ALL TYPE Quasi-Municipal

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Meter installed November 2012

SIGNATURE:  , P.E.

DATE: 10/9/2013

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: 03116600

PHOTO: YES NO

ACRES IRR: 0.0

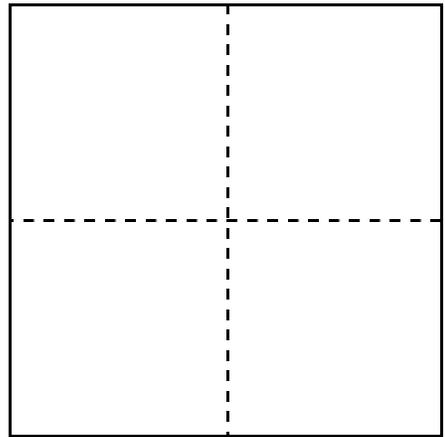
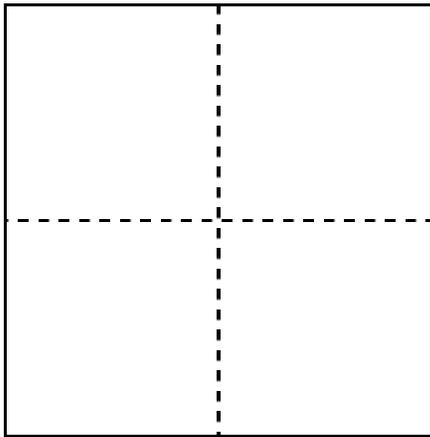
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: Dust control for arenas

SIGNATURE:  , P.E.

DATE: 10/9/2013

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: 18938900

PHOTO: YES NO

ACRES IRR: 1.37

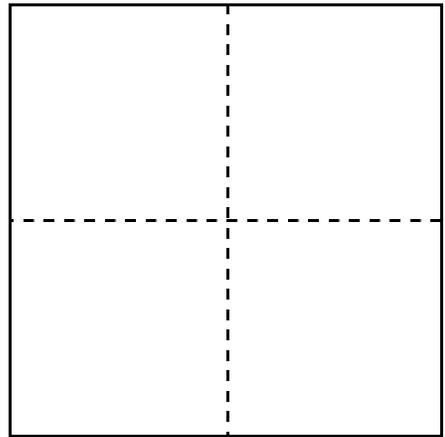
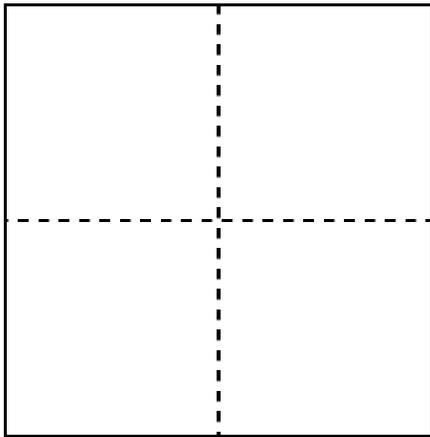
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: _____

SIGNATURE:  , P.E.

DATE: 10/9/2013

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: 01853500

PHOTO: YES NO

ACRES IRR: 1.08

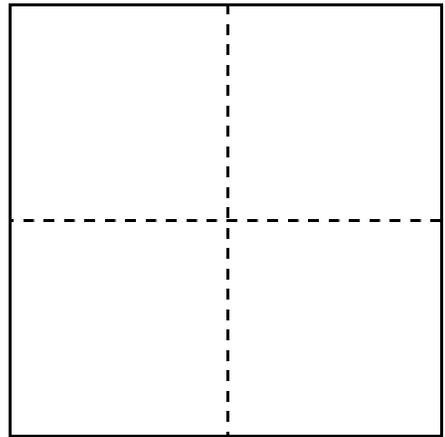
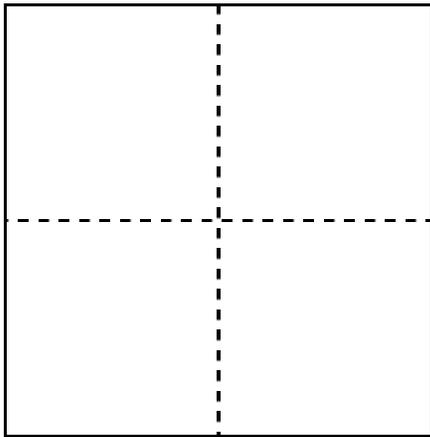
BENEFICIAL USE: YES NO

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

SIGNATURE:  , P.E. DATE: 10/9/2013

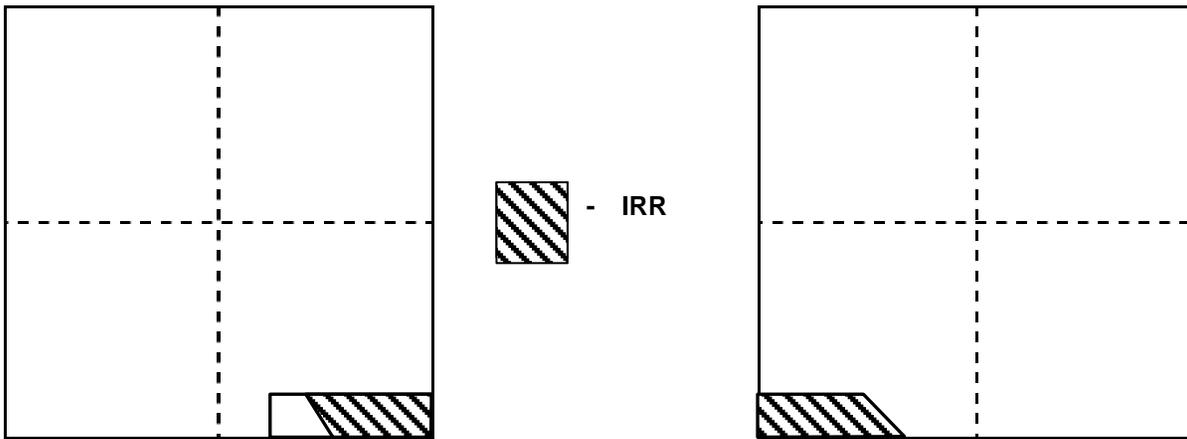
PUMPAGE INVENTORY FIELD REPORT

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: 2.54
 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 - 01584700 - 10-09-13

78582: S/N 10-0008495, RD - 1472090 - 10-09-13

SIGNATURE:  , P.E. DATE: 10/9/2013

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: 18812600

PHOTO: YES NO

ACRES IRR: 0

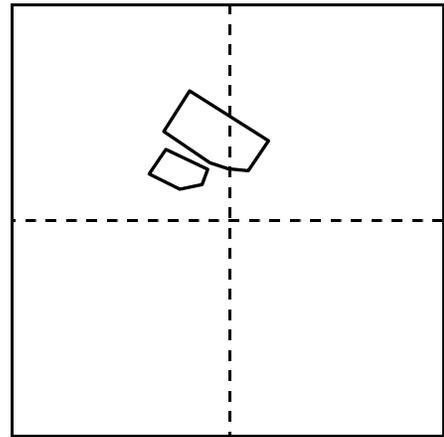
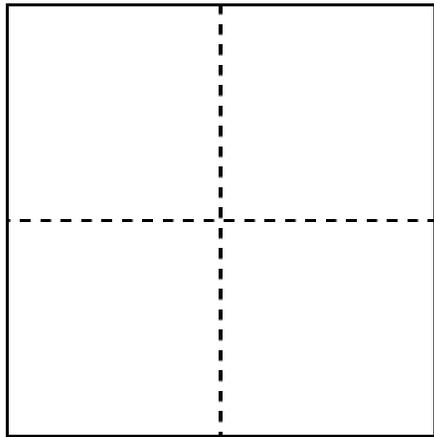
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 SW 1/4 SEC 16



REMARKS: _____

SIGNATURE: , P.E.

DATE: 10/9/2013

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: 821111 * .001 AF

PHOTO: YES NO

ACRES IRR: 25.32

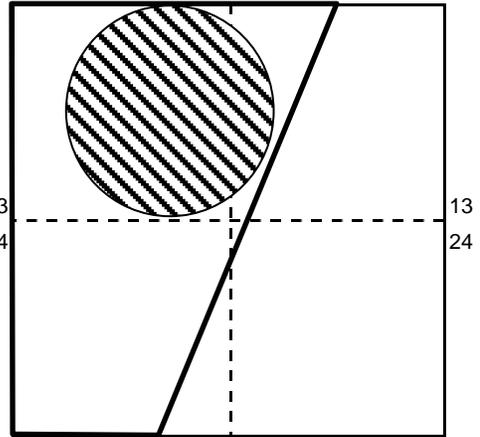
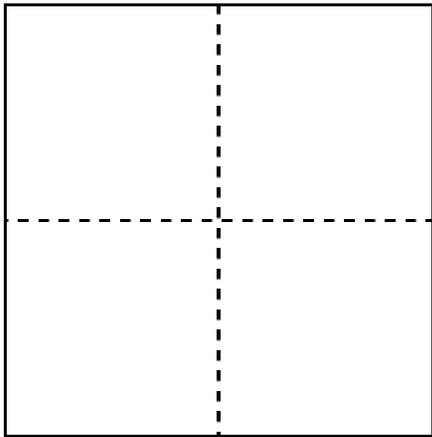
BENEFICIAL USE: YES NO

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: Corn

SIGNATURE:  , P.E.

DATE: 10/9/2013

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: 0046034000

PHOTO: YES NO

ACRES IRR: 0.0

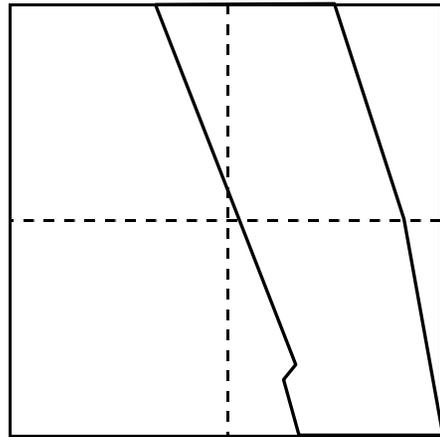
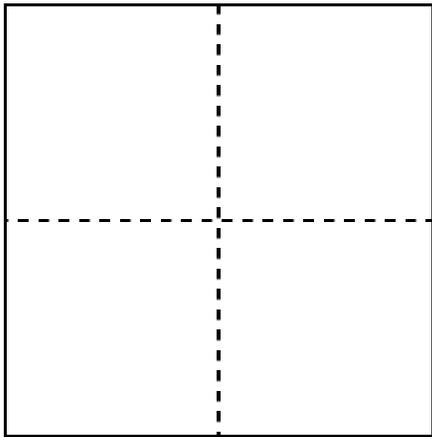
BENEFICIAL USE: YES NO

PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

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



REMARKS: _____

SIGNATURE:  , P.E. DATE: 10/9/2013

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

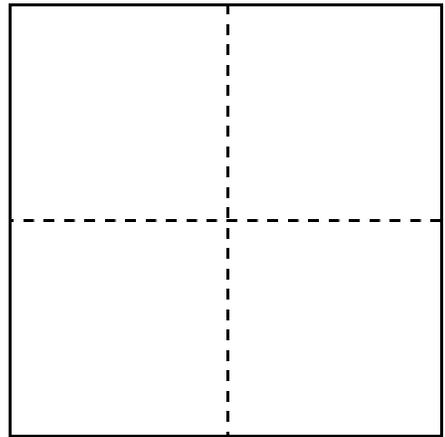
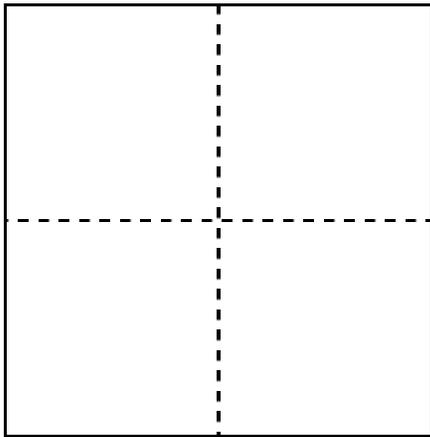
BENEFICIAL USE: YES NO

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:  , P.E.

DATE: 10/9/2013

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

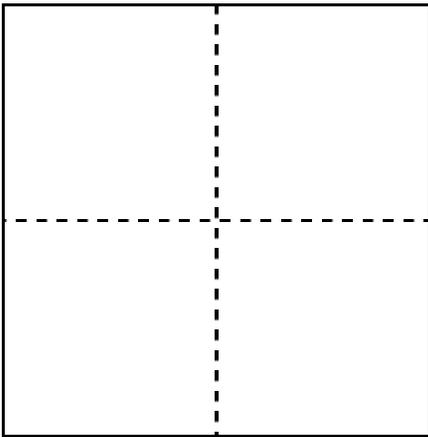
PHOTO: YES NO X ACRES IRR: 300.28

BENEFICIAL USE: YES X NO PORTION ALL X TYPE Irrigation

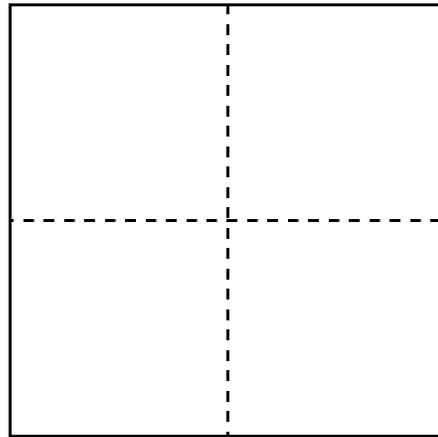
IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



See attached
copy of permit map
for irrigated lands



REMARKS: See attached copy of permit map for irrigated lands; 32 acres outside POU

POD 80627: S/N GP11-1063-10; RD - (1)515235 x 0.001 AF - 10-09-13

POD 80628: S/N GP11-1062-8; RD - (1)079780 x 0.001 AF - 10-09-13

POD 79484 & 79485: S/N GP11-1058-8; RD - 694572 x 0.001 AF - 10-09-13

SIGNATURE:  , P.E.

DATE: 10/9/2013

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

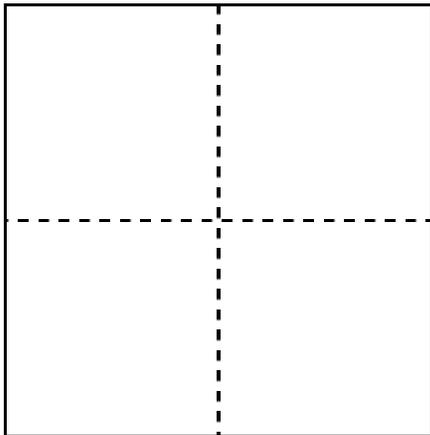
BENEFICIAL USE: YES NO _____

PORTION _____ ALL TYPE Irrigation

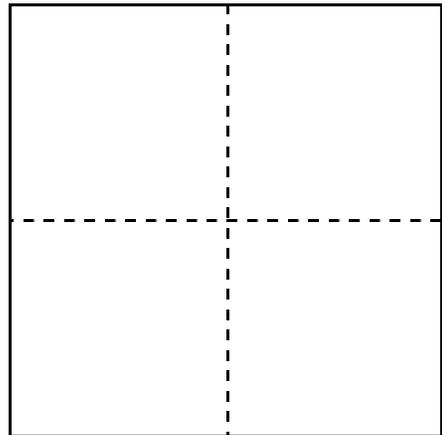
IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

____ 1/4 ____ 1/4 SEC ____

____ 1/4 ____ 1/4 SEC ____



See attached
copy of permit map
for irrigated lands



REMARKS: POD 79486 & 87: S/N GP11-1060-10; RD - 877062 x 0.001 AF - 10-09-13

POD 79488: S/N GP11-1059-8; RD - 862857 x 0.001 AF - 10-09-13

POD 79489: S/N GP11-1061-10; RD - 865513 x 0.001 AF - 10-09-13

POD 79490: S/N GP11-1057-6; RD - 519974 x 0.001 AF - 10-09-13

SIGNATURE:  , P.E.

DATE: 10/9/2013