

**LILAC HILLS RANCH
ESCONDIDO, CALIFORNIA
FINAL PRELIMINARY HYDROGEOLOGIC ASSESSMENT
SPECIFIC PLAN
GENERAL PLAN AMENDMENT
REZONE
FEIR
TM 5571 RPL5 AND TM5572 RPL5**

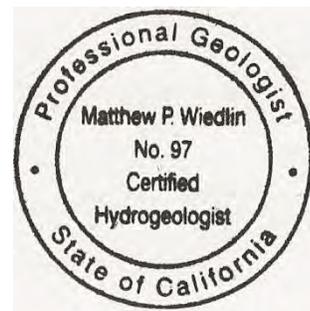
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EXECUTIVE SUMMARY

Available hydrogeologic information has been compiled for the proposed Lilac Hills Ranch community. This information includes a well inventory, past pump test data, limited flow meter data, limited groundwater quality data, and drilling contractor well logs. An assessment of the water supply source for properties within one mile of the project and within the local watershed has been prepared based on information provided by the Valley Center Municipal Water District (VCMWD) and the San Diego County Department of Environmental Health water well permit data base. An estimate of groundwater production at on-site water wells with a five year operational history has been developed based on the difference between the estimated irrigation requirements for the selected properties versus the amount of water delivered to those properties by VCMWD.

Potable water supply for the proposed community will be provided by the VCMWD. It is anticipated that some combination of recycled water, groundwater and potable water will be used to meet the irrigation needs of Lilac Hills Ranch, subject to the discretion of the district. Six of the nine active water wells at the site have at least a five year operational history. The six wells have served four agricultural areas. A comparison of estimated irrigation demand, based on CIMIS evapotranspiration data and crop coefficient estimates, to VCMWD water deliveries suggest that the older wells may be producing on average approximately 191 acre-feet of water per year. Short term flow meter data, and well contractor pump tests at three of the six wells, suggest that the groundwater production estimates are feasible.

VCMWD information indicates that greater than 90 percent of the properties within one mile of the proposed community that are also within the local watershed have water district service. This information indicates that there are few groundwater dependent parcels in the vicinity of the site and that the watershed is subject to additional groundwater recharge from the imported water deliveries via irrigation and septic leachate infiltration.

Evidence of the effect of the imported water deliveries includes several surface water ponds representing shallow water table conditions and Total Dissolved Solids (salinity) concentrations in groundwater that are considered brackish. Brackish groundwater conditions represent the buildup of salt from agricultural irrigation that occurs throughout the local watershed. The limitations on the use of groundwater are dependent on the plants that will be irrigated and the ability to blend groundwater with other less saline water sources.

Though irrigation demand for the project is still being formulated, the estimated five-year groundwater production history indicates that groundwater along with recycled water can be used to minimize the use of imported potable water for project irrigation requirements.

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INTRODUCTION

Preliminary groundwater related information has been compiled at the request of the San Diego County Department of Planning and Land Use's (DPLU) February 7, 2012 letter to Accretive Investments, Inc. and revised per DPLU's June 14, 2012 review letter. Information compiled herein includes a description of proposed groundwater uses, water well information, on-site agricultural activity, and information regarding the availability of imported water and water well installations for properties surrounding the proposed projects.

PROJECT DESCRIPTION

The proposed Lilac Hills Ranch community is approximately 608 acres, comprised of 60 contiguous properties and is located in northern unincorporated San Diego County a ¼ mile from the Interstate 15 corridor on the east side with freeway access off the OldHwy395 Interchange as shown in Figure (1). The site is located to the south and west of West Lilac Road with State Route 76 to the north, downtown Valley Center 10 miles to the east, downtown Escondido 16 miles to the south, and Interstate 15 and Old Highway 395 to the west Figure (1). The Lilac Hills Ranch community is located entirely in the Escondido zip code (92026) and occurs primarily within the westernmost portion of the Valley Center Community Planning Area (CPA) although a small portion is within the Bonsall Subregional Plan Area. From the northwest project corner, West Lilac Road serves as the northern and eastern boundary, while Circle R Drive is less than a 1/2 mile south of the southern edge. From the southwest corner, the western boundary runs along Shirey Road and extends to Stadel Lane, which serves as the northwestern boundary. The community is within Township 10 South, Range 3 West, Section 24, and Township 10 South, Range 2 West, Sections 19 and 30, on the USGS 7.5' Pala and Bonsall quadrangles Figure (2).

Lilac Hills Ranch proposes a new mixed use master planned community. The proposed Specific Plan includes a maximum of 1,746 dwelling units with varying lot sizes, a neighborhood-serving commercial village center, an active park/village green, retail uses, and a school site. Also, proposed on-site are a recycling facility; a water reclamation facility; groves and other landscaping and other supporting infrastructure. A Rezone is proposed to implement the Specific Plan by changing the existing Use Regulations, Development Regulations, and Special Residential Land Use Designation and the A70 (Limited Agricultural) Zoning. The project would also include the submittal of a Master Tentative Map, Implementing Tentative Map, Site Plan (s), and/or Major Use Permit(s). Potable water supply and wastewater treatment services for the proposed community will be provided by the VCMWD. Water demand and recycled water information are provided by Dexter Wilson Engineering (2012).

SITE DESCRIPTION

The site is within the San Diego Regional Water Quality Control Board's (RWQCB) San Luis Rey River Hydrologic Area and the Bonsall Hydrologic Sub Area (903.12). Most of the site is located within an approximately 15,350-acre watershed (Figure 2). The local watershed elevations range from approximately 1,200 feet mean sea level (msl) east of the site to approximately 300 feet msl downstream of the site (Figure 2). Surface water generally flows

southward to Moosa Canyon. From Moosa Canyon water generally flows northwestward approximately four miles to the San Luis Rey River.

The County of San Diego 30-Year Annual Rainfall Map, average annual rainfall for the local watershed is between 15 and 18 inches per year (San Diego County, 2005). According to the California Irrigation Management Information System (CIMIS) Reference Evapotranspiration Map (CIMIS, 1999), the site falls within Zone 6, just west of the border with Zone 16. Hence, a portion of the local watershed is located with Zone 16. Annual reference Evapotranspiration (ET_o) for Zone 6 and Zone 16 are 49.7 inches and 62.5 inches respectively (CIMIS, 1999). Irrigation demand calculations were prepared using the CIMIS Escondido station. ET_o values from this station are generally consistent with Zone 6 averages.

The site is underlain by Mesozoic Era granitic rocks. Groundwater flow and storage is principally via fractures within the granitic rock. As such, groundwater storage capacity is typically low compared to sedimentary rocks and unconsolidated sediment. Rock permeability with respect to water is typically highly variable depending upon the frequency, interconnectedness, and aperture of fractures. Overlying the fractured granitic rock is weathered granitic rock, also referred to as decomposed granite or residuum, which has some secondary porosity and therefore additional groundwater storage as feldspar minerals weather to clay. Rock permeability within decomposed granite is typically relatively low. Overlying the granitic rocks, shallow alluvial sediment occurs within the drainages. The thickness and extent of the alluvial deposits have not been evaluated.

Overall, the site currently has approximately 394 acres of irrigated agriculture. There are approximately 293 acres of orchard, 91 acres of row crops such as vegetables, strawberries and flowers, and 10 acres of nursery or intensive agriculture (RECON, 2012). Valley Center Municipal Water District (VMCWD) has delivered in excess of 290 acre-feet of water per year to the overall site, principally for irrigation (Appendix C-1).

WELL INVENTORY

An on-site well inventory has been developed along with a description of current and past groundwater production. Additionally, documentation of irrigated acreage has been developed along with a generalized description of crop types.

Ten groundwater production wells have been identified at the site (Figure 3). Nine of the wells are currently active. Flow meters have been installed in all active wells. There are no dedicated electrical meters associated with any of the production wells. Well 1 is inactive and has apparently never had a pump installed due to marginal air-lift production testing (Table 1).

The following provides well completion dates and estimated well production start dates for the wells. Much of this information is obtained from the drilling contractors' well construction reports and discussions with on-site staff (Appendix A). Flow meter data provided to date is also presented (Appendix B). Preliminary estimates of annual groundwater production for individual wells have been prepared based on flow meter data.

WELL COMPLETION AND PRODUCTION START DATES

Wells 1 through 4 were completed in August 2009 (Table 1). It is estimated that wells 2 and 3 began actively pumping sometime in early 2010 and Well 4 began pumping in August 2011.

Zosa Wells 1 and 2, and the Rahimi Well have been actively producing groundwater beyond the last 5 years. The well construction report for Zosa Well 1 has not been acquired to date; hence the date of completion is unknown though the Zosa Farms irrigator reports the well was completed in the early to mid 1990's. Zosa Well 2 was completed in September 2004. The Rahimi well was completed in March 1997.

Flower Farm Wells 1 and 2 were completed in February 2006, and the Dove Trail Well was completed in April 1994 (Table 1). According to the applicant, these wells have been active since the 1990's. On May 27, 2009 a well contractor performed five hour pump tests at Flower Farm Wells 1 and 2 to size new submersible pumps for the wells (Appendix A). Pumping rates stabilized at 36 gpm and 18 gpm respectively with water levels near the pump intakes. Flower Farm Wells 1 and 2 provide water to the adjacent western parcels that are also served by the Dove Trail Well (Figure 2).

On June 1, 2009 a similar pumping test was performed by the well contractor at the Dove Trail well. The pumping rate stabilized at 50 gpm near the pump intake (Appendix A). The new pumps were reportedly installed shortly after the tests were completed.

FLOW METER DATA

Longer term production information is presented for each well, along with instantaneous flow measurements observed during a March 6, 2012 site visit.

Flow meter data for Wells 2 and 3 are documented for the period July 5, 2011 to March 6, 2011 (Appendix B). For the eight months of record, Well 2 and 3 have produced 6.5 and 1.2 acre-feet of groundwater respectively. A linear projection of these trends suggests an annual groundwater production of approximately 11 and 3 acre-feet respectively (Appendix B).

A pumping rate of 32 gallons per minute (gpm) and 10 gpm were observed at Well 2 and Well 3 respectively on March 6, 2012 (Table 1). The pumping durations at these wells prior to the discharge measurements are unknown.

Flow meter data for Well 4 covers the period January 4, 2012 to March 6, 2012. From January 4 to March 6, 2012, Well 4 produced 13 acre-feet of groundwater. A linear projection of this winter time pumping trend suggests an annual groundwater production of 70 acre-feet per year. Well 4's pumping rate was measured at 140 gpm over a period of four minutes. According to the irrigator the well had been operating overnight. Well 4 is evidently the highest yielding well and the irrigator uses Well 4 water on numerous parcels across the site since it came on line in August 2011.

The operational history of the Zosa Wells is significantly longer than the other on site wells, and based on the well inspections, the flow meters at the Zosa wells were installed some time ago. However, the flow meter data period of record available for the Zosa wells are similar to the other wells. Flow meter data for the Zosa 2 well is documented from January 5, 2012 to July 18, 2012. During this seven month period, Zosa 2 produced 16.4 acre-feet of groundwater (Appendix B). A linear projection of these winter time pumping trend suggests an annual groundwater production of approximately 30 acre-feet (Appendix B). During a similar period of record, the Zosa 1 well flow meter data indicated that approximately 0.9 acre-feet of water was produced (Appendix B). A linear projection of these winter time pumping trend suggests an annual groundwater production of approximately 2 acre-feet (Appendix B). During the site visit on March 6, 2012, the pumping rates measured at Zosa 1 and 2 were 19 and 33 gpm respectively (Table 1). It is not known how long these wells were pumping prior to the measurements.

Though the operational history of the Rahimi Well reportedly extends back many years, available records at the time of this draft report cover a more recent time period of October 12, 2011 through March 6, 2012. For the available five month record, the Rahimi Well produced 4.2 acre-feet of groundwater (Appendix B). A linear projection of this fall and winter time pumping trend suggests an annual groundwater production of approximately 10 acre-feet per year (Appendix B). The flow rate at the Rahimi Well was measured at 43 gpm on the morning of March 6th. According to the irrigator, the Rahimi Well had been pumping through the previous evening (Table 1).

Flow meter data for Flower Farm Wells 1 and 2 are documented for the period January 4, 2012 to March 6, 2012 (Appendix B). For the available records at the time of this report, of approximately two months, Flower Farm Wells 1 and 2 have produced 6.5 and 1.2 acre-feet of groundwater respectively. A linear projection of these winter time pumping trends suggests an annual groundwater production of approximately 60 and 13 acre-feet respectively (Appendix B).

The pumping rate at Flower Farm Well 1 was not measured due to an apparent recently sand clogged flow meter. A flow rate of 36 gpm (Table 1) was observed at Flower Farm Well 2 over a five minute period, though it appears the submersible pump is oversized for the well based on frequent pump shutdowns. Per the irrigator, the Flower Farm Wells had been pumping for an extended period of time before the well inspection.

Flow meter data for the Dove Trail Well is documented for the period October 12, 2011 through March 6, 2012. For the available five month record, the Dove Trail Well produced 5.6 acre-feet of groundwater (Appendix B). A linear projection of this fall and winter time pumping trend suggests an annual groundwater production of approximately 14 acre-feet per year (Appendix B). The Dove Trail Well pumping rate was measured at 29 gpm over a five minute measurement period on March 6, 2012 (Table 1).

Though the flow meter data available at the time of this report covers a limited period of time ranging from 62 to 244 days, there is utility in assessing the pumping trends to estimate a total annual groundwater production for the site. Most of the wells have an operational history that is longer than the flow meter record. Note that most of the flow meter record is biased by being overweight with respect to winter time pumping data. Hence, a longer record may demonstrate a

higher groundwater production rate. Based on the limited flow meter data, the total estimated annual groundwater production is approximately 213 acre-feet (Appendix B). This estimate is very rudimentary as it is based on short period of time and does not rely on either a basic water balance analysis or well hydraulics analyses. Accordingly, it should be relied upon only as an initial indication of the production capacity at the site.

GROUNDWATER SALINITY

On June 10, 2010 a groundwater sample was collected from Well 4 and analyzed for a limited suite of cations and anions, pH, and electrical conductivity by Midwest Laboratories of Omaha, Nebraska. The estimated Total Dissolved Solids (TDS) estimated from the electrical conductivity measurement was 704 milligrams per liter (mg/l) where waters with TDS concentrations greater than 1,000 mg/l are considered brackish. Sodium was detected at 300 mg/l, a concentration that the lab classifies as potentially problematic depending on the crop and the ability to blend with other water sources. Other cation and anion concentrations were within acceptable ranges.

On April 6, 2011 Ag-Laboratory, Inc. of Fallbrook, California provided chloride concentrations and TDS concentrations for groundwater samples collected from seven onsite water wells (Appendix A). Laboratory methods were not reported by Ag-Laboratory and water well identification numbers are inconsistent with identifications provided to W&A. Nevertheless, the number of wells where groundwater samples were collected and the general consistency of the results provide a reasonable indication of groundwater conditions at the site. TDS concentrations ranged from 1,408 to 1,857 mg/l. Chloride concentrations ranged from 312 mg/l to 511 mg/l; a range considered high for irrigation by Ag-Laboratory, Inc, depending on the crop and the ability to blend with other water sources.

ESTIMATION OF GROUNDWATER USE AT SELECTED SITE LOCATIONS

Of the ten wells at the site, six have reportedly been active over the past five years; the Rahimi well, Zosa 1 and Zosa 2, Flower Farm Wells 1 and 2, and Dove Trail (Figure 2). Though documentation of groundwater production available at the time of this report was limited to the past several months, an estimate of how much groundwater that has been used on the properties served by these wells (Figure 4) can be developed based on an estimate of irrigation demand (Tables 2 and 3) and subtracting the volume of VCMWD water that was delivered to these parcels, if any. VCMWD annual water deliveries per water meter have been provided directly by VCMWD via Dexter Wilson Engineering (Appendix C). Water deliveries are reported by VCMWD's fiscal year, July 1st – June 30th. VCMWD purchases covering the period July 1, 2005 through June 30, 2006 are referred to herein as 2005 year water usage. Irrigated areas were provided by Accretive Investments, Inc.

From 2005 through 2009, this estimate represents the amount of water produced from the aforementioned six wells. For 2010, the estimate is not fully representative of water produced from the Rahimi well as Wells 2 and 3 contributed water to the Rahimi site beginning early in

the year. By the beginning of 2011, Well 4 groundwater was being distributed to the Zosa and Dove Trail agricultural areas. Hence groundwater demand estimates were terminated with the 2010 year as the new wells were distributing water to numerous parcels across the site by then.

In most cases irrigation demand was estimated on the basis of an average annual rate of irrigation per acre that was reported by Dexter Wilson Engineering. These estimates were consistent with an independent review of irrigation demand by W&A based on literature review, and discussions with Stehly Grove Management who assists the applicant on a number of their fields. Guava tree irrigation rates are based on discussions with the guava tree irrigator who provided irrigation rates on a gallons per day per tree basis.

ZOSA WELLS

The two Zosa wells serve several properties that total approximately 36 acres. Each well was supplemented with water from a separate VCMWD meter. According to Accretive Investments, from 2005 – 2009 the Zosa properties included approximately 8,000 guava trees over approximately 17.2 acres (Appendix C-2) and approximately 6.1 acres of avocados (Table 2). In 2010, about 0.5 acres of avocados were replaced with lemons and an additional 3.0 acres of lemons were planted (Table 2).

The irrigator for the Zosa properties reports that the guava trees take approximately 4 gallons of water per guava tree per day during the warm season and about 1 gallon per day per tree in the cool season (Table 3). An irrigation rate of 4.0 acre-feet per acre per year was applied to the avocado grove. An irrigation rate of 3.3 acre-feet per acre per year was applied to the lemons for the 2010 year. Based on these assumptions, the estimated average annual irrigation demand for the Zosa properties ranged from 44.3 acre-feet in 2005 through 2009 to 53.9 acre-feet in 2010 (Table 3).

VCMWD annual water deliveries through the two Zosa agricultural water meters for 2005 through 2010 ranged from 5.6 to 17.0 acre-feet per year (Table 4, Appendix C-1). Based on the difference between estimated irrigation demand and VCMWD deliveries, the inferred annual groundwater production at the Zosa Wells from 2005 through 2009 ranged between 27.3 and 38.7 acre-feet (Table 4). For 2010 when the lemon trees were planted, inferred groundwater production was 47.6 acre-feet per year (Table 4). The estimate is consistent with production information derived from the limited flow meter data for the two Zosa wells (Appendix B). For the time period 2005 through 2010, the combined average estimated groundwater production for the avocado grove, lemon grove, and guava trees is 35.4 acre-feet per year (Table 4).

RAHIMI WELL

The Rahimi well was used to irrigate an orange grove immediately north of the well from at least 2005 through most of 2009 (Appendix C-2). Accretive Investments reports that the 15.6 acres of oranges were partially damaged by frost but continued to be irrigated and fertilized. In 2010, the frost damaged oranges were replaced with lemons.

Citrus irrigation rates are estimated at 3.3 feet per acre per year. Applying the rate across the 15.6 acres of irrigated grove, results in an estimated annual irrigation demand of 51.5 acre-feet per year (Table 3).

Grove irrigation was supported solely by the Rahimi well from 2005 through late 2009. Since late 2009 groundwater produced from the Rahimi well is mixed with groundwater produced from Wells 2 and 3 and distributed over a number of parcels that are principally to the north of the well. The Rahimi properties have not used VCMWD water for irrigation at the grove. Small quantities of VCMWD water delivered to nearby water meters are used to support nearby residential dwellings.

Therefore, estimated groundwater production at the Rahimi well for the 2005 – 2009 time period is equal to the estimate of annual irrigation demand; 51.5 acre-feet per year (Table 4). The fall-winter flow meter data projects a 10 acre-feet per year usage. The Rahimi well was not operating at the time of the site visit so there is not a flow rate measurement for this well.

DOVE TRAIL – FLOWER FARM

The Dove Trail well and Flower Farm Wells 1 and 2 were used in conjunction with three VCMWD water meters to irrigate several parcels that total approximately 36.7 acres of undifferentiated avocado and citrus trees as well as approximately 16.7 acres of flowers on separate parcel (Figure 4, Table 2, Appendix C-2). These water sources were the sole water sources from 2006 through the end of 2010 when Well 4 was activated (Figure 4, Appendix C-2).

Using the mean annual irrigation rate of avocado and citrus, 3.65 feet per acre, the avocado and citrus irrigation demand is estimated at 134 acre-feet per year (Table 3). Using an irrigation rate of 2.0 feet per acre, the annual flower irrigation demand is estimated at 33.4 acre-feet per year (Table 3). Hence total estimated irrigation demand was 167.4 acre-feet per year (Table 4). VCMWD water was delivered through three agricultural water meters. Annual deliveries between 2006 and 2010 ranged from 29.4 to 97.6 acre-feet of water. For the time period 2006 through 2010, the combined average estimated groundwater production for the avocado grove, lemon grove, and flower fields is 104.3 acre-feet per year (Table 4).

COMMUNITY WATER SUPPLY SOURCES

Water supply for the community surrounding the proposed site is provided either through VCMWD, Rainbow Municipal Water District (RBMWD), and/or self served through private water wells. A small area within one mile of the project site, east of Interstate 15 is served by RBMWD. However, this area is in a different local watershed than the project site.

A manual count of parcels that are outside of the project boundaries, within the local watershed, and within 1 mile of the site indicates that there are approximately 200 parcels with VCMWD service and 18 buildable parcels without service (Figure 5). For the parcels without VCMWD service, the well data base maintained by San Diego County Department of Environmental Health (DEH) indicates that three have been permitted for water wells (Figure 5). Aerial photo

analysis indicates that one of the three properties has a residence. Aerial photo analyses also suggest that 12 of the 18 parcels without district service are undeveloped. Of the six developed parcels without VCMWD service, five parcels apparently have either a permitted water well that was installed before the DEH data base was developed, or an unpermitted water well (Figure 5).

For the area outside the project site that is within the local watershed and also within 1 mile of the site, there are approximately 36 parcels that have both water district service and a water well (Figure 5).

CONCLUSIONS

Nine production wells are operating at the site. Six of these wells have been in production for more than five years. The three active, newer wells have a 16 month to 2 year history of operation. Available flow meter data recorded over the past 2 to 8 months, if extrapolated to an annual rate suggests that the wells may produce on the order of 200 acre-feet of groundwater per year. This extrapolation should be relied upon only as an initial indication of the production capacity at the site and principally provides validation for the groundwater production estimate that is based on irrigation demand and VCMWD deliveries.

Groundwater production estimates were developed at four areas at the site that have been served for at least five years by water wells by comparing the difference between the estimated annual irrigation demand at the properties to the volume of VCMWD water delivered to the properties annually. This analysis suggests that the water wells with at least a five year history of activity may have produced, on average approximately 191 acre-feet per year (Table 4).

The evaluation of community water supply sources indicate that greater than 90 percent of the properties located outside of the project boundaries, within the local watershed, and within 1 mile of the site have VCMWD service.

Evidence of the effect of the imported water deliveries includes several surface water ponds representing shallow water table conditions and Total Dissolved Solids (salinity) concentrations in groundwater that are considered brackish. Brackish groundwater conditions represent the buildup of salt from agricultural irrigation that occurs throughout the local watershed.

Though irrigation demand for the project is still being formulated, the estimated five-year groundwater production history indicates that groundwater along with recycled water can be used to minimize the use of potable water for project irrigation requirements.

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Food and Agriculture Organization, www.fao.org/landandwater/aglw/cropwater/sunflower.stm
www.fao.org/nr/water/cropinfo/citrus.html

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County of San Diego, 2005, 30-Year Annual Average Rainfall, September 1, 2005.

TABLES

TABLE 1
Well Inventory

Well No.	APN	Completion Date	Well Activity Date	Drilling Co.	Total Depth	Surface Completion	Driller's Reported Static Water Level	Flow Meter?	Dedicated Electric Meter?	Driller's Well Production Information	Short Term Flow Measurements 3/6/12	Short Term Flow Measurement Notes 3/6/12
					(feet)		(feet)	(Record Start)	(Meter No.)		(gpm)	
Rahimi	128-440-21	3/19/1997	Prior to 2009	Stehly	760	8" Steel to 25'	50	Yes, 10/2/11	No	Driller airlifts for 1 hour @ 80 gpm, 570 ft of drawdown	43	Measured at 9:15 am. Well reportedly pumping since previous night.
Zosa No. 2	128-280-37	9/2/2004	Prior to 2009	Fain	1200	8" Steel to 95'	100	Yes	No	Driller airlifts for 8 hours @ 35 gpm, 700 ft of drawdown	33	
Zosa No. 1	128-440-23		Prior to 2009		1,100 ?		-	Yes	No		19	
1	128-290-07	8/8/2009	Not Active	Fain	1013	8" Steel to 20'	6	No	No	Driller airlifts for 8 hours @ 6 gpm, 85 ft of drawdown	Inactive	
2	128-290-07	7/23/2009	Approximately early 2010	Fain	710	8" Steel to 28'	70	Yes, 7/5/11	No	Driller airlifts for 4 hours @ 30 gpm, 146 ft of drawdown.	32.5	
3	128-290-07	8/13/2009	Approximately early 2010	Fain	1210	8" Steel to 28'	20	Yes, 7/5/11	No	Driller airlifts for 4 hours @ 10 gpm, 480 ft of drawdown.	10	
4	128-290-51	6/12/2010	Aug-11	Fain	1210	8" Steel to 50'	48	Yes, 1/4/12	No	Driller airlifts @ 175 gpm for 8 hours, 1,000 ft of drawdown. Cascading @ 69 ft	147	Reportedly pumping for several days.
Dove Trail/Gopher Cyn	129-010-72	4/27/1994	Pre-2006	Aspin	875	8" Steel to 20'	106	Yes, 10-12/11	No	Driller airlifts for 1 hour, >60 ft of drawdown	29	
Flower Farm 1	129-010-68	2/15/2006	Early 2006	Fain	310	8" Steel to 22'	15	Yes, 1/4/12	No	Driller airlifts for 4 hours @ 33 gpm, 30 ft of drawdown	Not measured-inoperative flow meter	
Flower Farm 2	129-010-68	2/21/2006	Early 2006	Fain	110	8" Steel to 21'; 21-42 perforated steel casing, open hole below	12	Yes, 1/4/12	No	Driller airlifts for 2 hours @ 30, 28 ft of drawdown	36	Pump operates for less than a minute at high rate, then shuts down briefly.

TABLE 2
Extent of Irrigated Crops Supported By Long Term Well Activity

Location	Crop			
	Citrus ¹	Avocado ¹	Guava ²	Flowers ¹
Zosa	0 (2005 - 2009); 3.5 (2010)	6.1 (2005 - 2009); 5.6 (2010)	8,000	0
Rahimi	15.6	0	0	0
Dove Trail/Flower Farm ³	36.7		0	16.7

Notes: 1) Acreage based on Accretive Investment's assessment of crop distribution (Appendix C), 2) Guava crop reported as number of trees rather than in acreage as the farm's irrigator reports irrigation rates in gallons per tree per day. Combined citrus and avocado acreage, undifferentiated by Accretive Investments.

TABLE 3
Estimated Annual Irrigation Demand
Areas With Long Term Well Activity

Location	Estimated Irrigation Rate				Estimated Annual Irrigation Demand				
	Citrus ¹	Avocado ¹	Guava ²	Flowers	Citrus	Avocado acre-feet per year	Guava	Flowers	Total
Zosa	3.3	4.0	2.2	-	0 to 11.6	22.4 to 24.4	19.9	-	44.3 to 53.9
Rahimi	3.3	-	-	-	51.5	0.0	0.0		51.5
Dove Trail/-Flower Farm ³	3.65		-	2.0	134.0		0.0	33.4	167.4

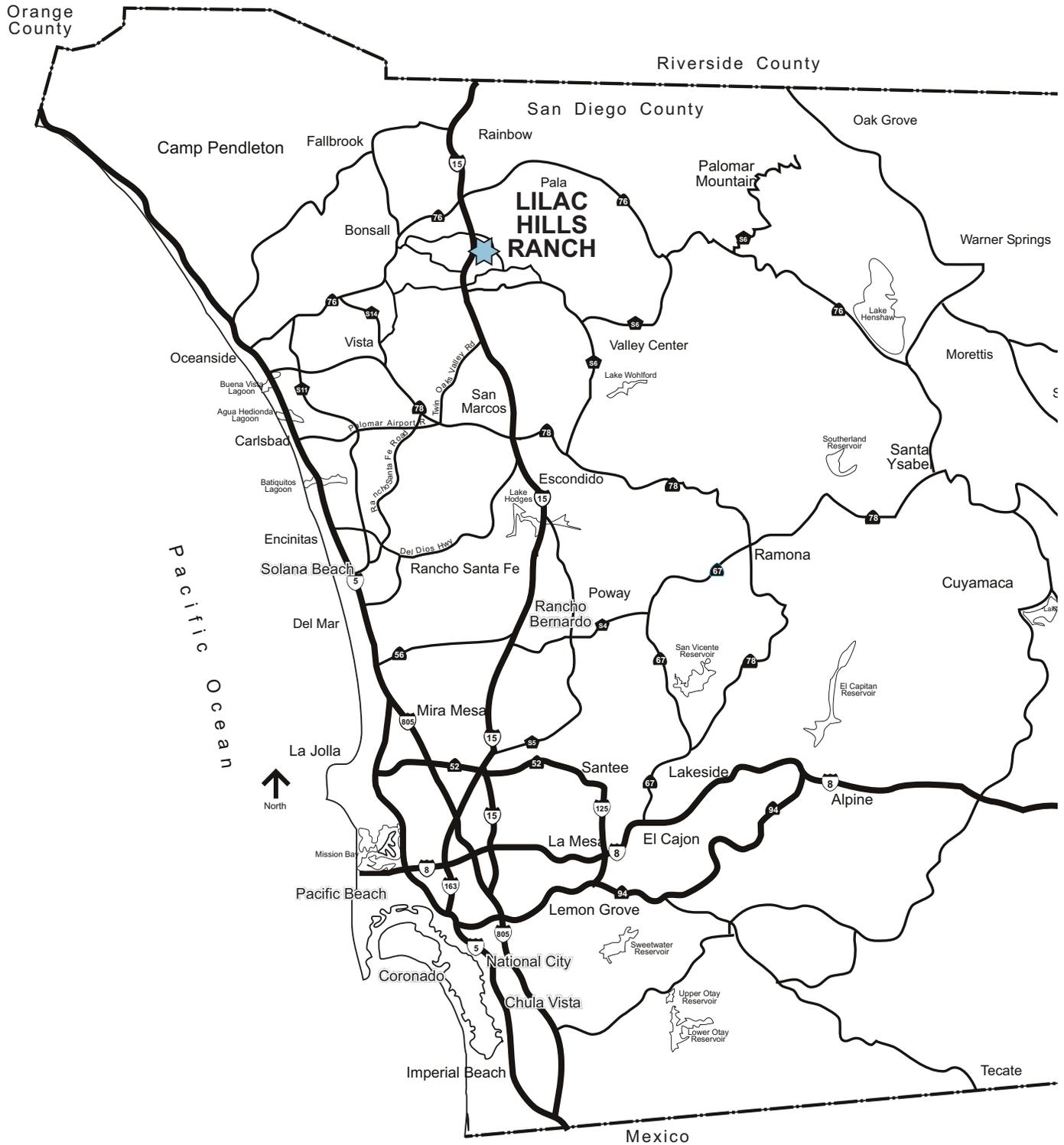
Notes: 1) Estimated irrigation rate reported by Dexter Wilson Engineering in feet of water per irrigated acre; 2) Average Irrigation rate reported by on-site irrigator in gallons per day per tree based on a warm season rate of 4 gpd per tree and a wet season rate of 1 gpd per tree. 3) For Dove Trail, citrus and avocado acreage is reported undifferentiated. Accordingly, an average of the two crops' irrigation rates is used.

TABLE 4
Inferred Groundwater Use
(acre-feet per year)

Entity		2005	2006	2007	2008	2009	2010	Average Groundwater Production	Date When Newer Wells Provided GW To Property
<u>Rahimi</u>	Estimated Irrigation Demand	51.5	51.5	51.5	51.5	51.5	N.A.	2005-2009	2010-2011 (Wells
	Measured VCMWD Usage	0.0	0.0	0.0	0.0	0.0	N.A.		
	Inferred Groundwater Use	51.5	51.5	51.5	51.5	51.5	N.A.		
<u>Zosa 1 & 2</u>	Estimated Irrigation Demand	44.3	44.3	44.3	44.3	44.3	54	2005-2010	2011 (Well 4)
	Measured VCMWD Usage	5.6	17.0	13.5	11.4	9.6	6.3		
	Inferred Groundwater Use	38.7	27.3	30.8	32.9	34.7	47.6		
<u>Dove Trail/Flower Farm Wells 1</u>	Estimated Irrigation Demand		167.4	167.4	167.4	167.4	167.4	2006-2010	2011 (Well 4)
	Measured VCMWD Usage		97.6	76.8	62.2	49.1	29.4		
	Inferred Groundwater Use	N.E.	69.7	90.6	105.1	118.3	137.9		
Total Average Inferred Groundwater Use								191.2	

Notes: N.A. = Not applicable due to the supplemental use of groundwater from newly installed water wells. N.E. = Not estimated as Flower Farm Wells 1 and 2 were installed in early 2006.

FIGURES



Regional Location Map

LILAC HILLS RANCH SPECIFIC PLAN & GENERAL PLAN AMENDMENT REPORT

FIGURE 1

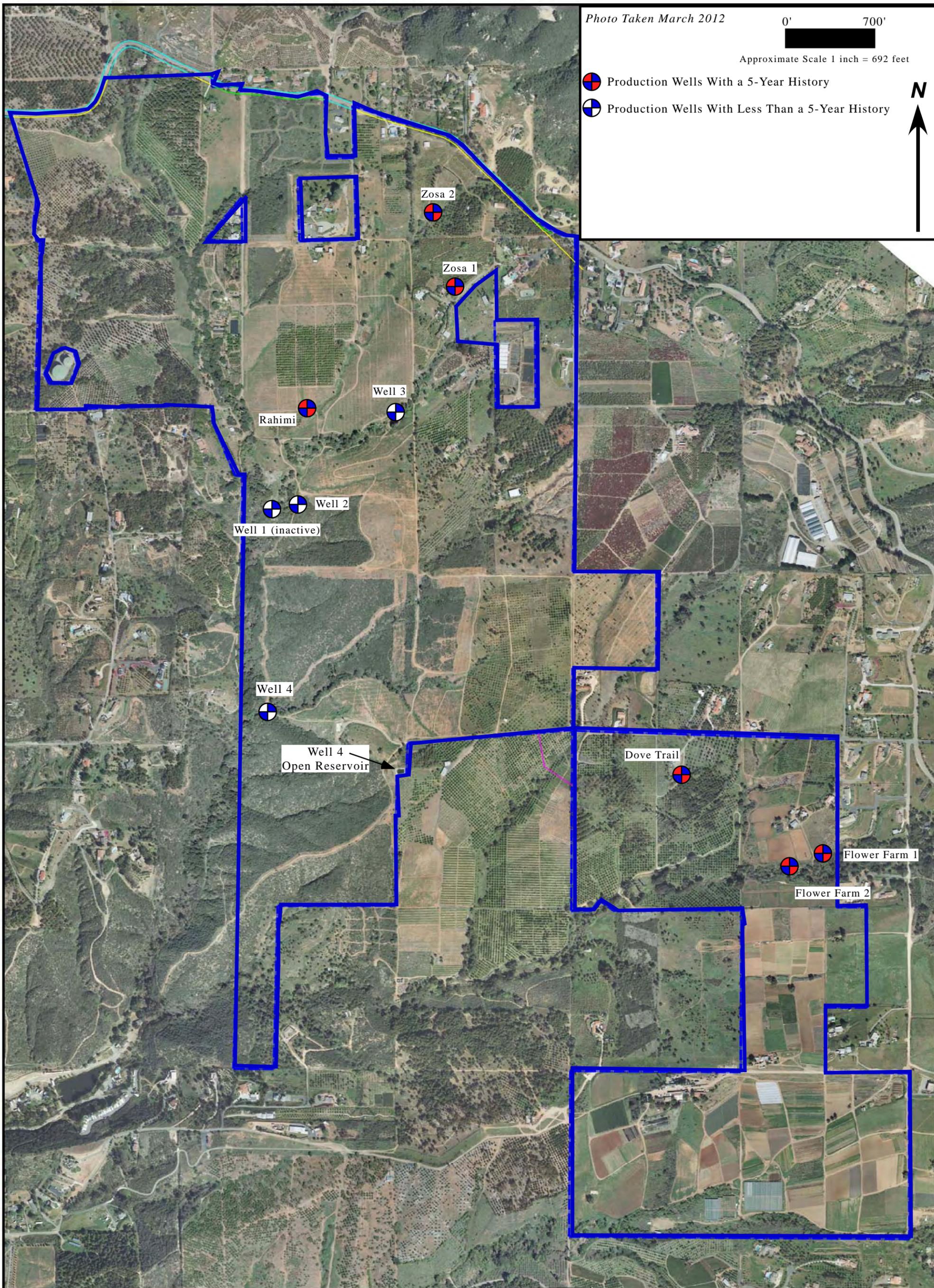


FIGURE 3 WELL LOCATIONS

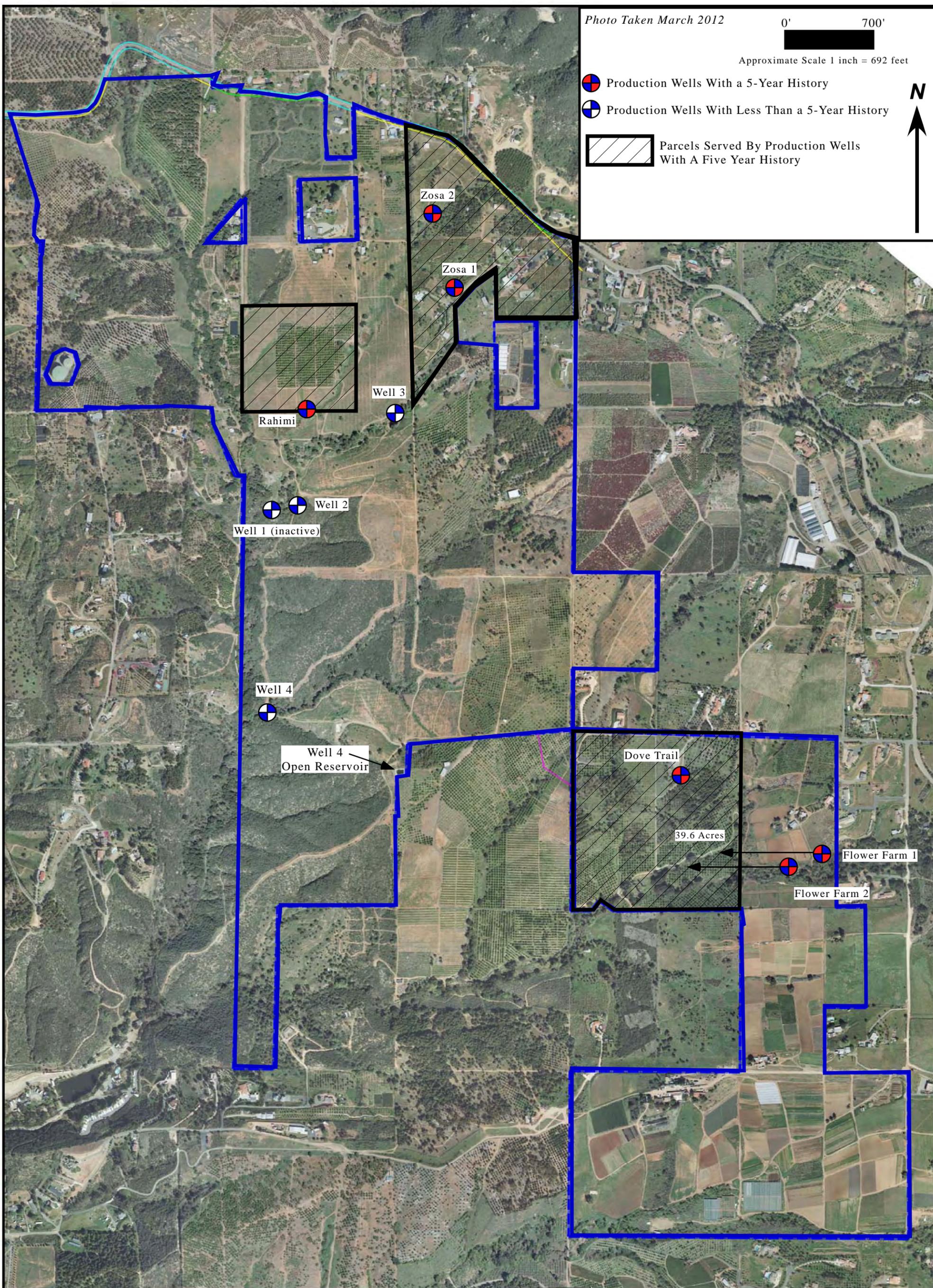
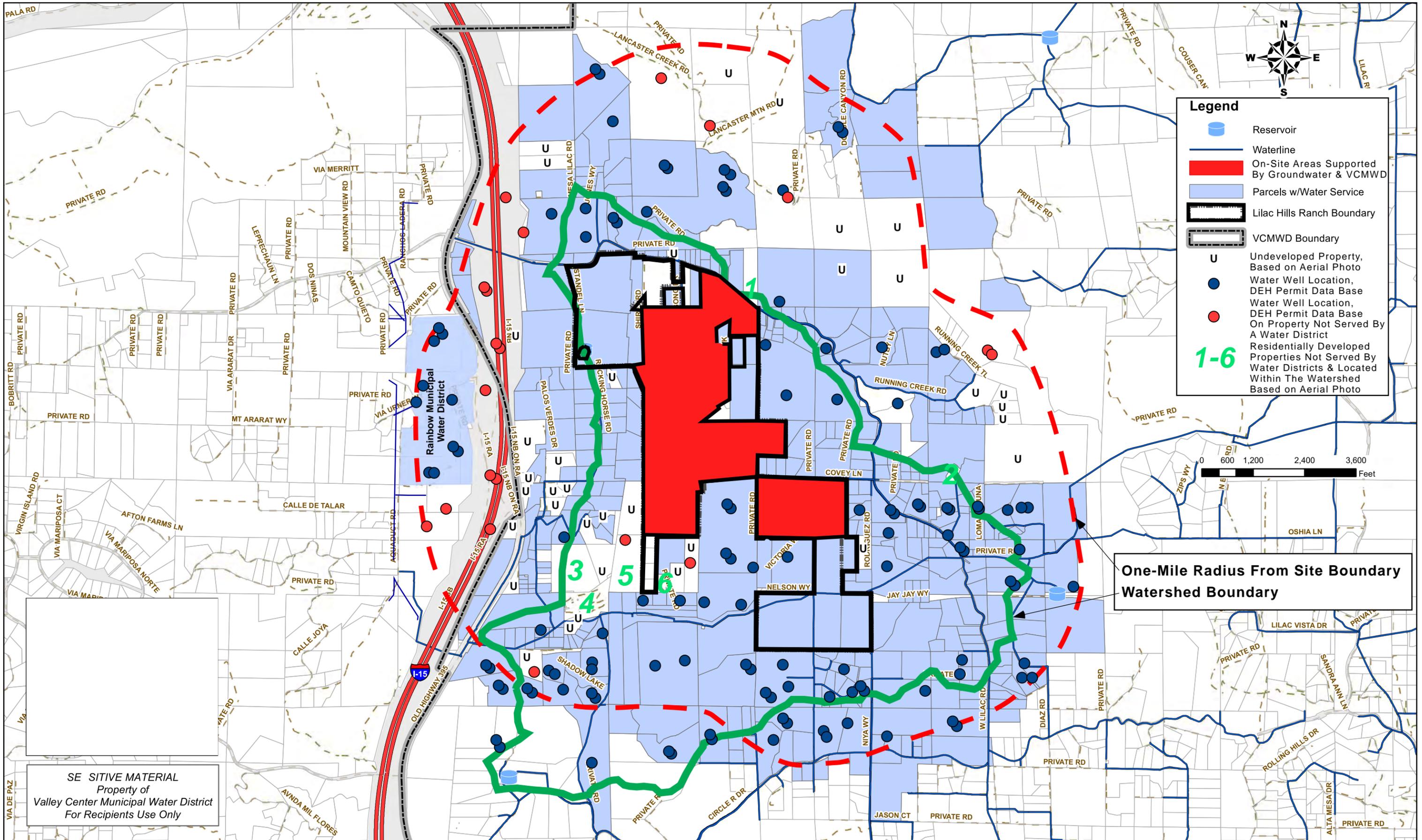


FIGURE 4 PROPERTIES SERVED BY LONG TERM WELL PRODUCTION



Legend

- Reservoir
- Waterline
- On-Site Areas Supported By Groundwater & VCMWD
- Parcels w/Water Service
- Lilac Hills Ranch Boundary
- VCMWD Boundary
- Undeveloped Property, Based on Aerial Photo
- Water Well Location, DEH Permit Data Base
- Water Well Location, DEH Permit Data Base On Property Not Served By A Water District
- 1-6 Residentially Developed Properties Not Served By Water Districts & Located Within The Watershed Based on Aerial Photo

One-Mile Radius From Site Boundary Watershed Boundary

SE SITIVE MATERIAL
Property of
Valley Center Municipal Water District
For Recipients Use Only

FIGURE 5 WATER DISTRICT SERVICE AND WATER WELL PERMITS



Modified by Wiedlin & Associates, Inc. from
Valley Center Municipal Water District

APPENDIX A
WATER WELL INFORMATION

A-1 Well Logs

A-2 Pump Test Data

A-3 Groundwater Quality

Appendix A-1 Well Logs

COPY

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **1082814**

Page 1 of 1

Owner's Well No. ONE

Date Work Began 8/4/09, Ended 8/8/09

Local Permit Agency DEH

Permit No. LWEL 20268 Permit Date 7/23/09

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

WELL OWNER

ORIENTATION () VERTICAL HORIZONTAL ANGLE (SPECIFY)

DRILLING METHOD Rotary FLUID Air

DEPTH FROM SURFACE		DESCRIPTION
Fl.	to Fl.	
0	6	Red decomposed granite
6	6	grey granite w/ seepage
6	86	grey granite
86	87	fracture 6 gpm
87	668	grey granite w/ dry fractures
668	695	soft weathered granite
695	1013	grey granite

Name The Accretive Group of Companies

Mailing Address 3655 Nobel Dr. Suite 650

San Diego Ca 92122

CITY STATE ZIP

Address 32450 blk Birdsong Dr.

City Valley Center

County San Diego

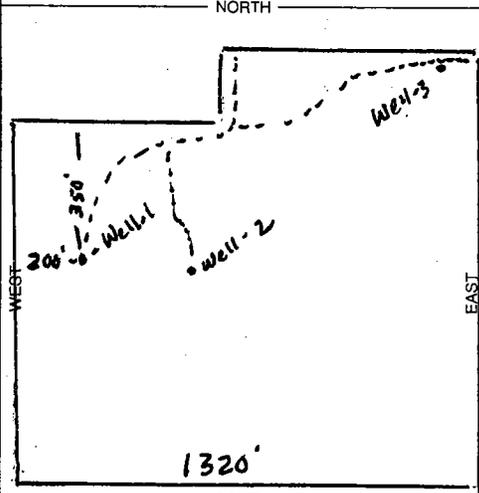
APN Book 128 Page 290 Parcel 07

Township 10-S Range 2-W Section 19

Eat. 33 17 462 N Long 117 08 271 W

DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH



ACTIVITY ()

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES ()

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDIATION

OTHER (SPECIFY)

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 6 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 56' (Ft.) & DATE MEASURED 8/8/09

ESTIMATED YIELD 6 (GPM) & TEST TYPE air lift

TEST LENGTH 8 (Hrs.) TOTAL DRAWDOWN 85 (Ft.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 1013 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1013 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)							
		TYPE ()				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
Fl.	to Fl.	BLANK	SCREEN	CON-DUCTOR	FILL PIPE				
0	20	14	<input checked="" type="checkbox"/>				steela53	8	.188

DEPTH FROM SURFACE	ANNULAR MATERIAL				
	TYPE				
Fl.	to Fl.	CE-MENT ()	BEN-TONITE ()	FILL ()	FILTER PACK (TYPE/SIZE)
0	20	<input checked="" type="checkbox"/>			

ATTACHMENTS ()

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other Site Map

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME FAIN DRILLING & PUMP CO. INC.

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 12029 Old Castle Rd - Valley Center CITY CA STATE 92082 ZIP

Signed Joe R. Fain DATE SIGNED 10-20-09 C-57 LICENSE NUMBER 328287

C-57 LICENSED WATER WELL CONTRACTOR

DUPLICATE
Driller's Copy

Page 1 of 1

Owner's Well No. 4

Date Work Began 6/1/10, Ended 6/12/10

Local Permit Agency DEH

Permit No. LWEL 20561 Permit Date 5/3/10

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 1083106

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

ORIENTATION () VERTICAL HORIZONTAL ANGLE (SPECIFY)

DRILLING METHOD Rotary FLUID Air

DESCRIPTION Describe material, grain size, color, etc.

DEPTH FROM SURFACE	FL.	TO	FL.	DESCRIPTION
	0		3	Slope wash - brown color
	3		33	Soft, brown decomposed granite
	33		47	Bedrock - granite - grey color
	47		48	Fracture 1st. water
	48		69	Granite - hard
	69		529	Fracture - water 10 GPM
	69		529	Granidiorite, Hard, Brown color
	529			Fracture - water 5 GPM
	529		663	Granidiorite, HARD grey color
	663		776	Granidiorite with some small fractures with water Total water this depth 50 GPM
	776		944	Granidiorite hard, massive
	944			Fracture w/water add'l 25 GPM
	944		1147	Granidiorite Hard - massive

WELL OWNER Name Lilac Creek Estates LP

Mailing Address 12275 El Camino Real Suite 110

CITY San Diego Ca 92130 ZIP

WELL LOCATION Address 9000 blk Covey Lane

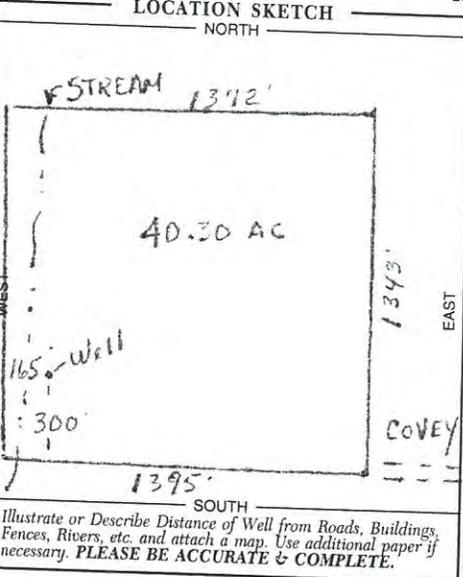
City Valley Center

County San Diego

APN Book 128 Page 290 Parcel 51

Township 10 S Range 2 W Section 19

Lat _____ N Long _____ W



ACTIVITY ()

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES ()

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDICATION

OTHER (SPECIFY) _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 48 (Fl.) BELOW SURFACE

DEPTH OF STATIC WATER 100± (Fl.)

WATER LEVEL note: cascading water at 69 ft. 6/10/10

ESTIMATED YIELD 175 (GPM) & TEST TYPE Air Lift

TEST LENGTH 8 (Hrs.) TOTAL DRAWDOWN 1000 (Fl.)

* May not be representative of a well's long-term yield.

1147-1148 Fracture w/water - Most water here

1148-1210 Hard, massive granidiorite

TOTAL DEPTH OF BORING 1210 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1210 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)								
		TYPE ()	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)				
Fl. to Fl.		BLANK	SCREEN	CONDUIT	DUCTOR	FILL PIPE				
0	50	14	X				Steel	8	.188	

DEPTH FROM SURFACE	ANNULAR MATERIAL			
	TYPE			
Fl. to Fl.	CE-MENT ()	BEN-TONITE ()	FILL ()	FILTER PACK (TYPE/SIZE)
0	50	X		

ATTACHMENTS ()

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other Site MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Fain Drilling & Pump Co Inc. (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 12029 Old Castle Rd. Valley Center, Ca 92082

CITY STATE ZIP

Signed Joe R. Fain C-57 LICENSED WATER WELL CONTRACTOR

DATE SIGNED 6-14-10 328287 C-57 LICENSE NUMBER

<p>TYPE OF WORK (Check)</p> <p>New Well <input checked="" type="checkbox"/></p> <p>Repair or Modification <input type="checkbox"/></p> <p>Time Extension <input type="checkbox"/></p> <p>Destruction <input type="checkbox"/></p>	<p>USE (Check)</p> <p>Individual Domestic <input type="checkbox"/></p> <p>Agricultural <input checked="" type="checkbox"/> Community <input type="checkbox"/></p> <p>Industrial <input type="checkbox"/> Other _____</p>	<p>EQUIPMENT (Check)</p> <p>Rotary/AIR <input checked="" type="checkbox"/></p> <p>Cable Tool <input type="checkbox"/></p> <p>Other <input type="checkbox"/></p>
<p>PROPOSED WELL DEPTH</p> <p>Max. <u>800</u> Min. <u>200</u> (Feet)</p>		<p>PROPOSED CASING</p> <p>Type <u>STL</u> Depth <u>20'</u> Diameter <u>8 5/8</u> Wall or Gage <u>.188</u></p>
<p>PROPOSED SEALING ZONE(S)</p> <p>From <u>0</u> to <u>20'</u> Feet</p> <p>From _____ to _____ Feet</p> <p>From _____ to _____ Feet</p>		<p>SEALING MATERIAL (Check)</p> <p>Neat Cement Grout <input checked="" type="checkbox"/> Bentonite Clay <input type="checkbox"/></p> <p>Sand Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/></p> <p>Other-Specify: _____</p>
<p>PROPOSED PERFORATIONS OR SCREEN</p> <p>From _____ to _____ Feet</p>		<p>DATE OF WORK</p> <p>Start <u>3-18-94</u></p> <p>Completion <u>3-23-94</u></p>
<p>NAME OF WELL OWNER <u>OTIS P. HEALD</u></p> <p>LOCATION OF WELL <u>PO BOX 1707 FALLBROOK 728-6131</u> <u>92028</u></p>		<p>NAME OF WELL DRILLER <u>LARRY WARDEN 788-6042</u></p> <p>COMPANY <u>ASPEN WELL DRILLING</u></p>
<p>DISPOSITION OF APPLICATION (FOR HEALTH OFFICERS USE ONLY)</p> <p><input type="checkbox"/> APPROVED <input type="checkbox"/> DENIED</p> <p><input checked="" type="checkbox"/> APPROVED WITH CONDITIONS</p> <p>Report Reason(s) for Denial or Necessary Conditions Here:</p> <p>_____</p> <p>_____</p> <p>_____</p>		<p>BUSINESS ADDRESS <u>1039 'D' ST #6 RAMONA CA</u></p> <p>LICENSE NUMBER <u>583402</u></p> <p>Cash Deposit <input type="checkbox"/></p> <p>Bond Posted <input checked="" type="checkbox"/></p> <p><u>235.00</u> Fee paid on <u>3-17-94</u></p>
<p>On sites served with public water, contact the local water agency for meter protection requirements.</p>		<p>I hereby agree to comply with all regulations of the Department of Health Services and with all ordinances and laws of the County of San Diego and of the State of California pertaining to well construction, repair, modification and destruction. Immediately upon completion of work I will furnish the Department of Health Services with a complete and accurate log of the well.</p>
<p><u>Todd Wabel</u> HEALTH OFFICER <u>3-17-94</u> DATE</p>		<p><u>Rick Aspen</u> APPLICANT'S SIGNATURE <u>3-15-94</u> DATE</p>

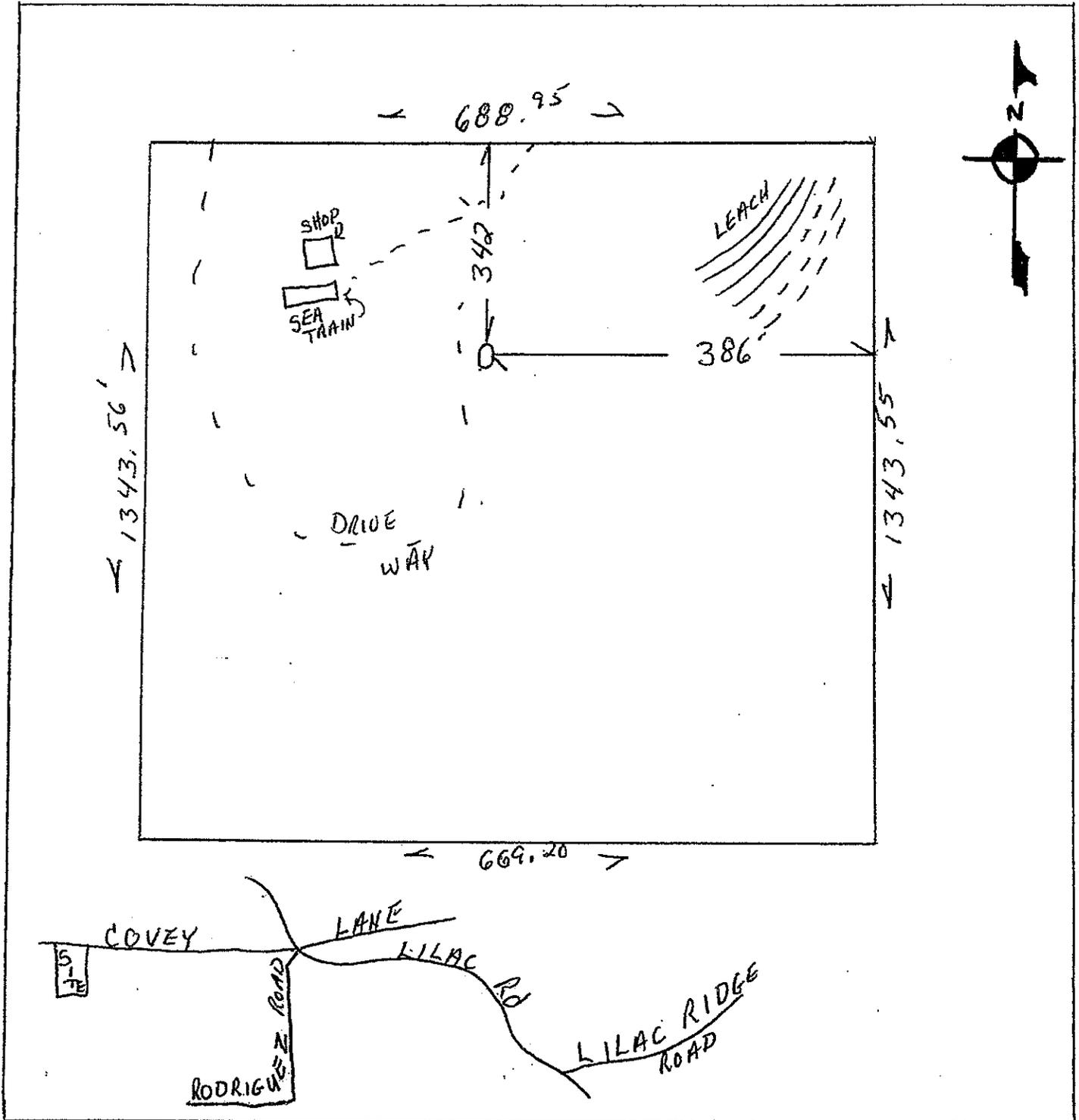
129-010-72

Mpl: 9603 COVEY LN VALLEY CENTER

CA-72MT

LOCATION

INDICATE BELOW THE VICINITY AND EXACT LOCATION OF WELL WITH RESPECT TO THE FOLLOWING ITEMS: PROPERTY LINES, WATER BODIES OR WATER COURSES, DRAINAGE PATTERN, ROADS, EXISTING WELLS, SEWERS AND PRIVATE SEWAGE DISPOSAL SYSTEMS AND OTHER POTENTIAL CONTAMINATION SOURCES, INCLUDING DIMENSIONS.



ORIGINAL
File with DWR

Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **1082816**

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page 1 of 1

Owner's Well No. TWO

Date Work Began 8/14/09, Ended 8/19/09

Local Permit Agency DEH

Permit No. LWELL 20270 Permit Date 7/23/09

GEOLOGIC LOG

WELL OWNER

ORIENTATION () VERTICAL _____ HORIZONTAL _____ ANGLE _____ (SPECIFY)
DRILLING METHOD rotary FLUID air

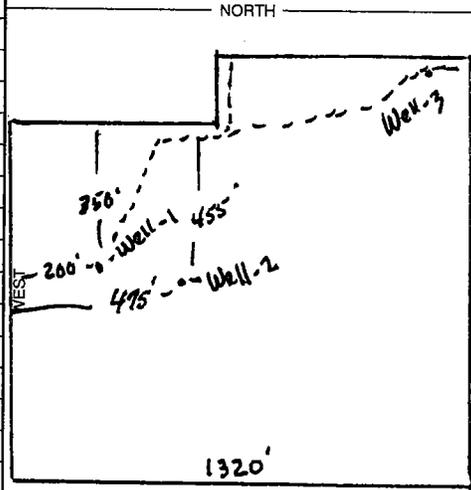
Name The Accretive Group of Companies
Mailing Address 3655 Nobel Dr. Suite 650
San Diego Ca 92122
CITY STATE ZIP

DEPTH FROM SURFACE		DESCRIPTION
Fl.	to Fl.	
0	4	soft red fill
4	25	grey decomposed granite
25	163	grey granite
163	164	fracture 2 gpm
164	250	grey granite
250	251	grey granite
251	276	grey granite
276	277	fracture 15 gpm
277	498	grey granite
498	499	fracture 15 gpm
499	710	grey granite

WELL LOCATION
Address 32450 blk of Birdsong Dr
City Valley Center
County San Diego
APN Book 128 Page 290 Parcel 07
Township 10-S Range 2-W Section 19
Lat 33 DEG. 17 MIN. 468 SEC. N Long 117 DEG. 08 MIN. 234 SEC. W

LOCATION SKETCH

ACTIVITY ()



- NEW WELL
MODIFICATION/REPAIR
____ Deepen
____ Other (Specify)
____ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

- USES ()**
WATER SUPPLY
____ Domestic ____ Public
 Irrigation ____ Industrial
MONITORING ____
TEST WELL ____
CATHODIC PROTECTION ____
HEAT EXCHANGE ____
DIRECT PUSH ____
INJECTION ____
VAPOR EXTRACTION ____
SPARGING ____
REMEDICATION ____
OTHER (SPECIFY) ____

SOUTH
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 164 (Feet) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 70 (Feet) & DATE MEASURED 8/19/09
ESTIMATED YIELD * 30 (GPM) & TEST TYPE air lift
TEST LENGTH 4 (Hrs.) TOTAL DRAWDOWN 146 (Feet)
* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 710 (Feet)
TOTAL DEPTH OF COMPLETED WELL 710 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)							
		TYPE ()				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
Fl.	to Fl.	BLANK	SCREEN	CON-DUCTOR	FILL PIPE				
0	28	14	x			steel	A53	8	.188

DEPTH FROM SURFACE	ANNULAR MATERIAL				
	TYPE				
Fl.	to Fl.	CE-MENT ()	BEN-TONITE ()	FILL ()	FILTER PACK (TYPE/SIZE)
0	20	x			
20	26		x		

ATTACHMENTS ()

- ____ Geologic Log
____ Well Construction Diagram
____ Geophysical Log(s)
____ Soil/Water Chemical Analyses
 Other Site map

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Fain Drilling & Pump Co. INC
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 12029 Old Castle Rd - Valley Center CA 92082
CITY STATE ZIP
Signed Joe R. Fain
C-57 LICENSED WATER WELL CONTRACTOR
DATE SIGNED 10-20-09 328287
C-57 LICENSE NUMBER

ORIGINAL
File with DWR

Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

Page 1 of 1
Owner's Well No. three No. **1082817**
Date Work Began 8/8/09; Ended 8/13/09
Local Permit Agency DEH
Permit No. LWEL 20271 Permit Date 7/23/09

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

DEPTH FROM SURFACE			DESCRIPTION
Ft.	to	Ft.	
0	12		red decomposed granite
12	25		grey granite
25	27		broken fracture 5gpm
27	46		grey granite
46	47		fracture 8 gpm
47	489		grey granite w/ dry fractures
489	489		fracture 2 gpm
489	775		grey granite
775	825		rose granite
825	1210		grey granite

ORIENTATION () VERTICAL _____ HORIZONTAL _____ ANGLE _____ (SPECIFY)

DRILLING METHOD rotary FLUID air

Describe material, grain size, color, etc.

WELL OWNER

Name The Accretive Group of Companies
Mailing Address 3655 Nobel Dr. Suite 650
San Diego Ca. 92122
CITY STATE ZIP

WELL LOCATION

Address 32450 blk of Birdsong Dr.
City Valley Center
County San Diego
APN Book 128 Page 290 Parcel 07
Township 10-S Range 2-W Section 19
Lat 33 17 577 N Long 117 08 091 W
DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY ()

NEW WELL

MODIFICATION/REPAIR
 _____ Deepen
 _____ Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES ()

WATER SUPPLY
 _____ Domestic _____ Public
 Irrigation _____ Industrial

MONITORING _____
 TEST WELL _____
 CATHODIC PROTECTION _____
 HEAT EXCHANGE _____
 DIRECT PUSH _____
 INJECTION _____
 VAPOR EXTRACTION _____
 SPARGING _____
 REMEDIATION _____
 OTHER (SPECIFY) _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 25 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 20 (Ft.) & DATE MEASURED 8/14/09

ESTIMATED YIELD 10 (GPM) & TEST TYPE air lift

TEST LENGTH 4 (Hrs.) TOTAL DRAWDOWN 480 (Ft.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)							
		TYPE ()				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
		BLANK	SCREEN	CONDUCTOR	FILL PIPE				
0 to 28	14	x				steelA53	8	.188	

DEPTH FROM SURFACE	ANNULAR MATERIAL			
	TYPE			
	CE-MENT ()	BEN-TONITE ()	FILL ()	FILTER PACK (TYPE/SIZE)
0 to 20	x			
20 to 28		x		

ATTACHMENTS ()

_____ Geologic Log
 _____ Well Construction Diagram
 _____ Geophysical Log(s)
 _____ Soil/Water Chemical Analyses
 Other Site map

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Fair Drilling & Pump Co. INC
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 12029 Old Castle Rd - Valley Center Cal. 92082 CITY STATE ZIP

signed Joe R. Fair DATE SIGNED 10-20-09 C-57 LICENSE NUMBER 328287
 C-57 LICENSED WATER WELL CONTRACTOR

DUPLICATE
Driller's Copy

Page 1 of 1

Owner's Well No. 4

Date Work Began 6/1/10, Ended 6/12/10

Local Permit Agency DEH

Permit No. LWEL 20561 Permit Date 5/3/10

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 1083106

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

ORIENTATION () VERTICAL HORIZONTAL ANGLE (SPECIFY)

DRILLING METHOD Rotary FLUID Air

DESCRIPTION Describe material, grain size, color, etc.

DEPTH FROM SURFACE	FL.	TO	FL.	DESCRIPTION
	0		3	Slope wash - brown color
	3		33	Soft, brown decomposed granite
	33		47	Bedrock - granite - grey color
	47		48	Fracture 1st. water
	48		69	Granite - hard
	69		529	Fracture - water 10 GPM
	69		529	Granidiorite, Hard, Brown color
	529			Fracture - water 5 GPM
	529		663	Granidiorite, HARD grey color
	663		776	Granidiorite with some small fractures with water Total water this depth 50 GPM
	776		944	Granidiorite hard, massive
	944			Fracture w/water add'l 25 GPM
	944		1147	Granidiorite Hard - massive

WELL OWNER Name Lilac Creek Estates LP

Mailing Address 12275 El Camino Real Suite 110

CITY San Diego Ca 92130 ZIP

WELL LOCATION Address 9000 blk Covey Lane

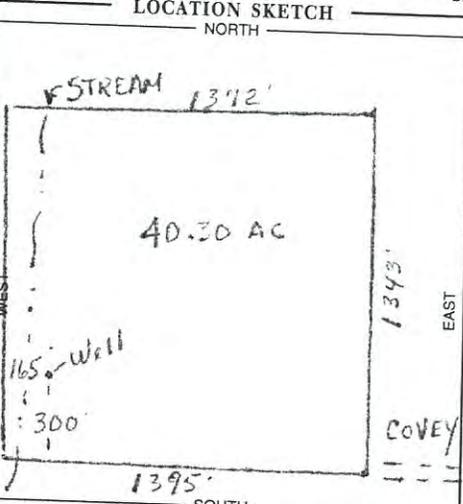
City Valley Center

County San Diego

APN Book 128 Page 290 Parcel 51

Township 10 S Range 2 W Section 19

Lat DEG. MIN. SEC. N Long DEG. MIN. SEC. W



ACTIVITY () NEW WELL

MODIFICATION/REPAIR Deepen Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES () WATER SUPPLY Domestic Public Irrigation Industrial

MONITORING TEST WELL CATHODIC PROTECTION HEAT EXCHANGE DIRECT PUSH INJECTION VAPOR EXTRACTION SPARGING REMEDIATION OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 48 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 100± (Ft.) & DATE MEASURED 6/10/10

WATER LEVEL note: cascading water at 69 ft.

ESTIMATED YIELD 175 (GPM) & TEST TYPE Air Lift

TEST LENGTH 8 (Hrs.) TOTAL DRAWDOWN 1000 (Ft.)

* May not be representative of a well's long-term yield.

1147 1148 Fracture w/water - Most water here

1148 1210 Hard, massive granidiorite

TOTAL DEPTH OF BORING 1210 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1210 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)					
		TYPE ()	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	
0	14	X	Steel	8	.188		

DEPTH FROM SURFACE	ANNULAR MATERIAL TYPE			
	CE-MENT ()	BEN-TONITE ()	FILL ()	FILTER PACK (TYPE/SIZE)
0	X			

ATTACHMENTS ()

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other Site MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Fain Drilling & Pump Co Inc. (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 12029 Old Castle Rd. Valley Center, Ca 92082

CITY STATE ZIP

Signed Joe R. Fain C-57 LICENSED WATER WELL CONTRACTOR

DATE SIGNED 6-14-10 328287 C-57 LICENSE NUMBER



**COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
WELL PERMIT APPLICATION**

AUG - 2 2004

DEH USE ONLY
 PERMIT # W LwEL 16130
 WELL COMPUTER #
 FEE: \$390.00
 WATER DIST: VC MWD

Zosa Well 2

County of San Diego
Dept. of Environmental Health

1. Property Owner: Gigi MAR Phone: 530-902-2255
9381 W. Lilac Rd ESCONDIDO 92026
Mailing Address City Zip

2. Well Location - Assessors Parcel Number 128-280-37
W. Lilac Rd ESCONDIDO 92036
Site Address City Zip

3. Well Contractor - Well Driller Joe Fain Company Name: Fain Drilling
12029 Old Castle Rd Valley Center 92082
Mailing Address City Zip
 Phone#: 760-749-0701 C-57#: 328287 Cash Deposit Bond Posted

4. Use: Private Public Industrial Cathodic Other AGRICULTURE
 5. Type of Work: New Reconstruction Destruction Time Extension: 1st 2nd
 6. Type of Equipment: Rotary (Air)
 7. Depth of Well: Proposed: 1000' Existing: 0
 8. Proposed:

Casing	Conductor Casing	Filter/Filler Material	Perforations
Type: <u>STEEL</u> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Depth: <u>100±</u>	Depth: _____ ft.	From: _____ To: _____	From: <u>0</u> To: _____
Diameter <u>8"</u> in.	Diameter _____ in.	Type: _____	From: _____ To: _____
Wall/Gauge: <u>-188</u>	Wall/Gauge: _____	Wall/Gauge: _____	From: _____ To: _____

9. Annular Seal: Depth: 20+ ft. Sealing Material: CEMENT
 Borehole diameter: 12 in. Conductor diameter: 8 in. Annular Thickness 2 in.
 10. Date of Work: Start: AUG - 2004 Complete: AUG - 2004

On sites served by public water, contact the local water agency for meter protection requirements.
 I hereby agree to comply with all regulations of the Department of Environmental Health, and with all ordinances and laws of the County of San Diego and the State of California pertaining to well construction, repair, modification and destruction. Immediately upon completion of work, I will furnish the Department of Environmental Health with a complete and accurate log of the well. I accept responsibility for all work done as part of this permit and all work will be performed under my direct supervision.

Contractor's Signature: Joe R. Fain Date: AUG. 2 - 2004

DISPOSITION OF APPLICATION (Department of Environmental Health Use only)

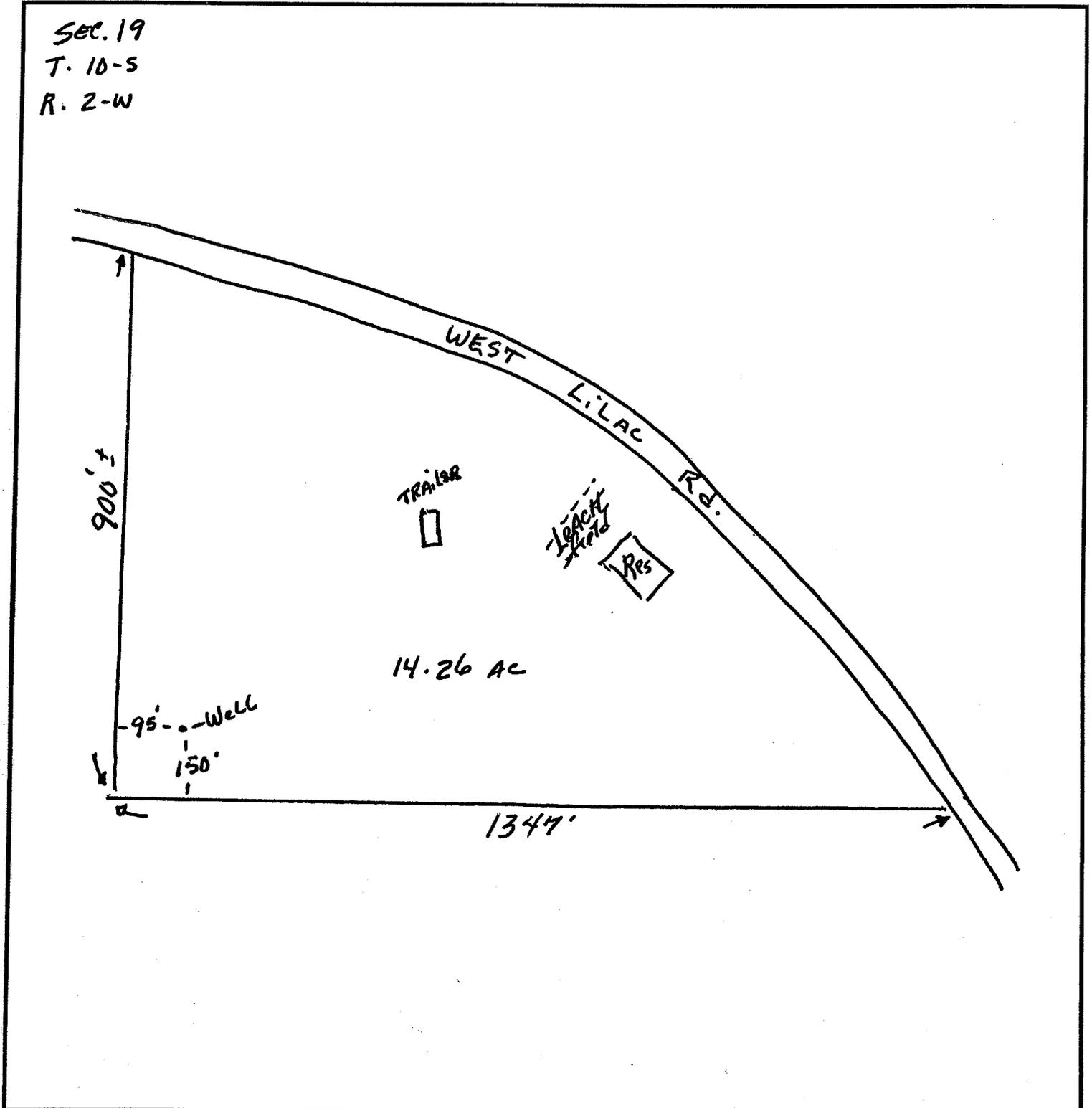
Approved Denied Special Conditions: Grading and clearing associated with access to, or the construction, maintenance or destruction of water wells, may require additional permits from the County of San Diego and/or other agencies

Specialist: [Signature] Date: 8-6-04

LWEL 16130

Zosa Well 2 LOCATION

Indicate below the vicinity and exact location of well with respect to the following items: Property lines, water bodies or water courses, drainage pattern, easements, roads, existing wells, sewers and private sewage disposal systems and other potential contamination sources, including dimensions.



QUADRUPPLICATE
For Local Requirements

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Page 1 of 1 Zosa Well 2

Owner's Well No. 0909584

No. **0909584**

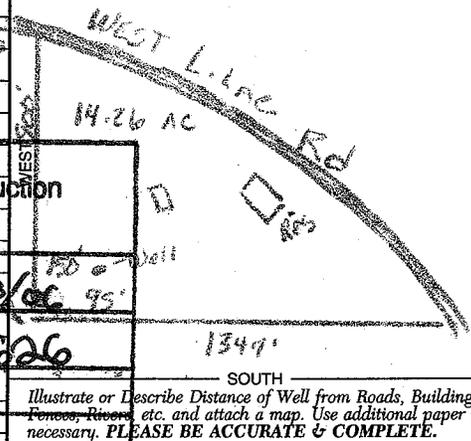
Date Work Began 8/23/04, Ended 9/2/04

Local Permit Agency DEH

Permit No. LLWEL 16130 Permit Date 8/6/07

DWR USE ONLY — DO NOT FILL IN											
STATE WELL NO./STATION NO.											
LATITUDE						LONGITUDE					
APN/TRS/OTHER											

GEOLOGIC LOG				WELL OWNER			
ORIENTATION (∠)		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE (SPECIFY)		Name <u>Timothy Har</u>		Mailing Address <u>46426 Club House Drive</u>	
DEPTH FROM SURFACE		DRILLING METHOD <u>Rotary</u> FLUID <u>Air</u>		City <u>San Diego</u> STATE <u>Ca</u> ZIP <u>92026</u>		Address <u>2307 W. 141st Rd</u> City <u>San Diego</u> Ca 92026 County <u>San Diego</u> APN Book <u>125</u> Page <u>280</u> Parcel <u>37</u> Township <u>0905</u> Range <u>2W</u> Section <u>19</u> Lat. DEG. MIN. SEC. N Long DEG. MIN. SEC. W	
Fl. to Fl.		DESCRIPTION		WELL LOCATION			
		Describe material, grain size, color, etc.		Address			
0	13	Fill Sandy Dg		City			
13	90	Decomposed granite - brown color		County			
90	100	Bedrock granite - grey color		APN Book			
100		Fracture zone - seepage of water		Township			
101	610	Granodiorite, hard, massive blue/grey color		Range			
610	950	Granodiorite, grey with black & white minerals		Section			
950	960	Fracture zone (water) 35 gpm		Lat			
960	1000	Granodiorite with some small fracturing		DEG.			
1000	1200	Hard, massive granodiorite grey color no additional water		MIN.			
				SEC.			
				N			
				Long			
				DEG.			
				MIN.			
				SEC.			
				W			
				LOCATION SKETCH		ACTIVITY (∠)	
				NORTH		<input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> MODIFICATION/REPAIR <input type="checkbox"/> Deepen <input type="checkbox"/> Other (Specify)	
				Completed Well Construction Date <u>5/25/06</u> Date Inspected <u>5/23/06</u> Comments <u>N 33.29626</u> <u>X W 117.13460</u> <u>elev = 887'</u>		<input type="checkbox"/> DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG") USES (∠) WATER SUPPLY <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Industrial MONITORING <input type="checkbox"/> TEST WELL <input type="checkbox"/> CATHODIC PROTECTION <input type="checkbox"/> HEAT EXCHANGE <input type="checkbox"/> DIRECT PUSH <input type="checkbox"/> INJECTION <input type="checkbox"/> VAPOR EXTRACTION <input type="checkbox"/> SPARGING <input type="checkbox"/> REMEDIATION <input type="checkbox"/> OTHER (SPECIFY) <input type="checkbox"/>	
				WATER LEVEL & YIELD OF COMPLETED WELL DEPTH TO FIRST WATER <u>100</u> (Ft.) BELOW SURFACE DEPTH OF STATIC WATER LEVEL <u>unk</u> (Ft.) & DATE MEASURED _____ ESTIMATED YIELD * <u>35</u> (GPM) & TEST TYPE <u>airlift</u> TEST LENGTH <u>8</u> (Hrs.) TOTAL DRAWDOWN <u>700</u> (Ft.) * May not be representative of a well's long-term yield.			
TOTAL DEPTH OF BORING <u>1200</u> (Feet) TOTAL DEPTH OF COMPLETED WELL <u>1200</u> (Feet)							



DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)						DEPTH FROM SURFACE	ANNULAR MATERIAL					
		TYPE (∠)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)		GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE			
Fl.	to	Fl.	BLANK	SCREEN	CONDUCTOR			FILL PIPE			Fl.	to	Fl.	CE-MENT (∠)
0	95	12	X				steel	8	.188		X			
20	95										X			

ATTACHMENTS (∠)

Geologic Log
 Well Construction Diagram
 Geophysical Log(s)
 Soil/Water Chemical Analyses
 Other Site Map

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Fain Drilling & Pump Co. Inc.
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
12029 Old Castle Rd. Valley Center, Ca 92082

ADDRESS _____ CITY _____ STATE _____ ZIP _____

Signed [Signature] DATE SIGNED 9/3/04 328287
 C-57 LICENSED WATER WELL CONTRACTOR DATE SIGNED 9/3/04 328287
 C-57 LICENSE NUMBER

02101 1301

**QUADRUPPLICATE
For Local Requirements**

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page 1 of 1
 Owner's Well No. C-79 Rahimi No. **539779**
 Date Work Began 7/11/97, Ended 7/11/97
 Local Permit Agency San Diego
 Permit No. W63321 Permit Date 7/11/97

GEOLOGIC LOG

ORIENTATION (∠) VERTICAL HORIZONTAL ANGLE (SPECIFY)

DEPTH TO FIRST WATER (Ft.) BELOW SURFACE

DEPTH FROM SURFACE		DESCRIPTION <i>Describe material, grain size, color, etc.</i>
Ft.	to Ft.	
0	4	Fill
4	9	Topsoil
9	19	B+W D.G. Spt
11	127	B+W Granite Very Hard
127	145	B+W Granite Slightly Red
145	240	B+W Granite Very Hard
210	260	Many fractures some granite
260	315	B+W Granite Very Hard
315	340	Black Granite Medium Hard
340	475	B+W Granite Very Hard
475	480	Big Fractures B. water 50 GPM
480	595	B+W Granite Very Hard
575	605	Fractures + more water 80 GPM
605	760	B+W Granite Very Hard

WELL OWNER

Name Steve Rahimi
 Mailing Address 751 Tukwood Ave
 City La Habra STATE CA ZIP 90631
 WELL LOCATION
 Address Sandhill Rd off W. Lake
 City Valley Center
 County San Diego
 APN Book 128 Page 440 Parcel 21
 Township 10S Range 2W Section 19
 Latitude _____ NORTH Longitude _____ WEST

LOCATION SKETCH

WEST EAST

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (∠)

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S) (∠)

MONITORING

WATER SUPPLY

Domestic

Public

Irrigation

Industrial

"TEST WELL"

CATHODIC PROTECTION

OTHER (Specify)

Completed Well Construction

Date 7-11-97

Date Inspected 7-11-97

Comments Ag. Well

Water Sample Taken? No

Reviewed By M. Sedgh

DRILLING METHOD Rotary Air FLUID _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 50 (Ft.) & DATE MEASURED 3-11-97

ESTIMATED YIELD 80 (GPM) & TEST TYPE Art. Lift

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN 570 (Ft.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 760 (Feet)

TOTAL DEPTH OF COMPLETED WELL 760 (Feet)

DEPTH FROM SURFACE		BORE-HOLE DIA. (Inches)	CASING(S)					ANNULAR MATERIAL				
Ft.	to Ft.		TYPE (∠)	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	DEPTH FROM SURFACE	TYPE			
Ft.	to Ft.						Ft.	to Ft.	CE- MENT (∠)	BEN- TONITE (∠)	FILL (∠)	FILTER PACK (TYPE/SIZE)
0	25	12'	✓	Steel	8	1/8"	0	25	✓			

- ATTACHMENTS (∠)**
- Geologic Log
 - Well Construction Diagram
 - Geophysical Log(s)
 - Soil/Water Chemical Analyses
 - Other _____
- ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Paul Stahly
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS PO Box 2111 Valley Center CA 92082
 CITY STATE ZIP

Signed Paul Stahly DATE SIGNED 3/11/97 709686
 WELL DRILLER/AUTHORIZED REPRESENTATIVE C-57 LICENSE NUMBER

Rahimi

WELL PERMIT
APPLICATION

#651

APN 128 440 21

Control # W63331

<p>TYPE OF WORK (Check)</p> <p>New Well <input checked="" type="checkbox"/></p> <p>Repair or Modification <input type="checkbox"/></p> <p>Time Extension <input type="checkbox"/></p> <p>Destruction <input type="checkbox"/></p>	<p>USE (Check)</p> <p>Individual Domestic <input type="checkbox"/></p> <p>Agricultural <input checked="" type="checkbox"/> Community <input type="checkbox"/></p> <p>Industrial <input type="checkbox"/> Other _____</p>	<p>EQUIPMENT (Check)</p> <p>Rotary <input checked="" type="checkbox"/></p> <p>Cable Tool <input type="checkbox"/></p> <p>Other <input type="checkbox"/></p>
<p>PROPOSED WELL DEPTH</p> <p>Max. <u>1000</u> Min. <u>20</u> (Feet)</p>	<p>PROPOSED CASING</p> <p>Type <u>Steel</u> Depth <u>23'</u> Diameter <u>8"</u> Wall or Gage <u>188</u></p>	
<p>PROPOSED SEALING ZONE(S)</p> <p>From <u>0</u> to <u>23</u> Feet</p> <p>From _____ to _____ Feet</p> <p>From _____ to _____ Feet</p> <p>PROPOSED PERFORATIONS OR SCREEN</p> <p>From _____ to _____ Feet</p>	<p>SEALING MATERIAL (Check)</p> <p>Neat Cement Grout <input checked="" type="checkbox"/> Bentonite Clay <input type="checkbox"/></p> <p>Sand Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/></p> <p>Other-Specify: _____</p> <p style="text-align: center;">DATE OF WORK</p> <p>Start <u>3/10/97</u></p> <p>Completion <u>3/17/97</u></p>	
<p>NAME OF WELL OWNER</p> <p><u>Steve Rahimi (714) 738 6050</u></p>	<p>NAME OF WELL DRILLER</p> <p><u>Paul Stehly (619) 742 3668</u></p>	
<p>LOCATION OF WELL</p> <p><u>Songbird Rd off W. Lilac. V.C. 92082</u></p>	<p>COMPANY</p> <p><u>SB Well Service</u></p>	
<p>DISPOSITION OF APPLICATION (FOR HEALTH OFFICERS USE ONLY)</p> <p><input type="checkbox"/> APPROVED <input type="checkbox"/> DENIED</p> <p><input checked="" type="checkbox"/> APPROVED WITH CONDITIONS</p> <p>Report Reason(s) for Denial or Necessary Conditions Here:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>BUSINESS ADDRESS</p> <p><u>P.O. Box 2149 V.C. 92082</u></p> <p>LICENSE NUMBER</p> <p><u>709686</u></p> <p>Cash Deposit <input type="checkbox"/></p> <p>Bond Posted <input type="checkbox"/></p> <p><u>235</u> Fee paid on <u>03-06-97</u></p> <p style="text-align: right;"><u>1990</u></p>	
<p>HEALTH OFFICER</p> <p><u>[Signature]</u></p> <p><u>6 Mar 97</u></p> <p>DATE</p>	<p>APPLICANT'S SIGNATURE</p> <p><u>Paul Stehly</u></p> <p><u>3/6/97</u></p> <p>DATE</p>	

1000 7000

RAHIMI STEVE

San Luis Rey mwd

Rahimi

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES

WELL PERMIT APPLICATION

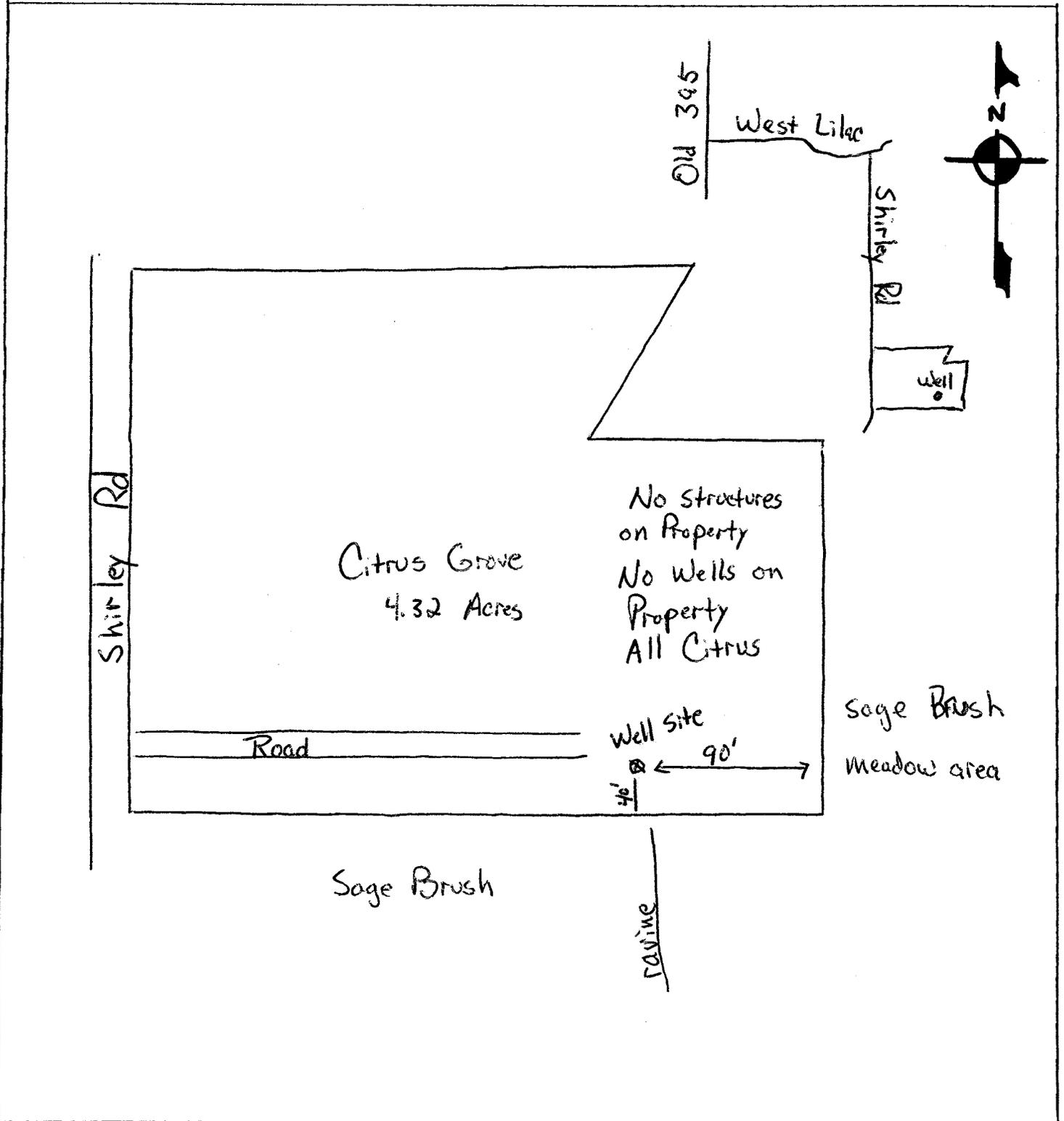
Control # W63331

03/06/97

Assessor's Parcel No. 12844021

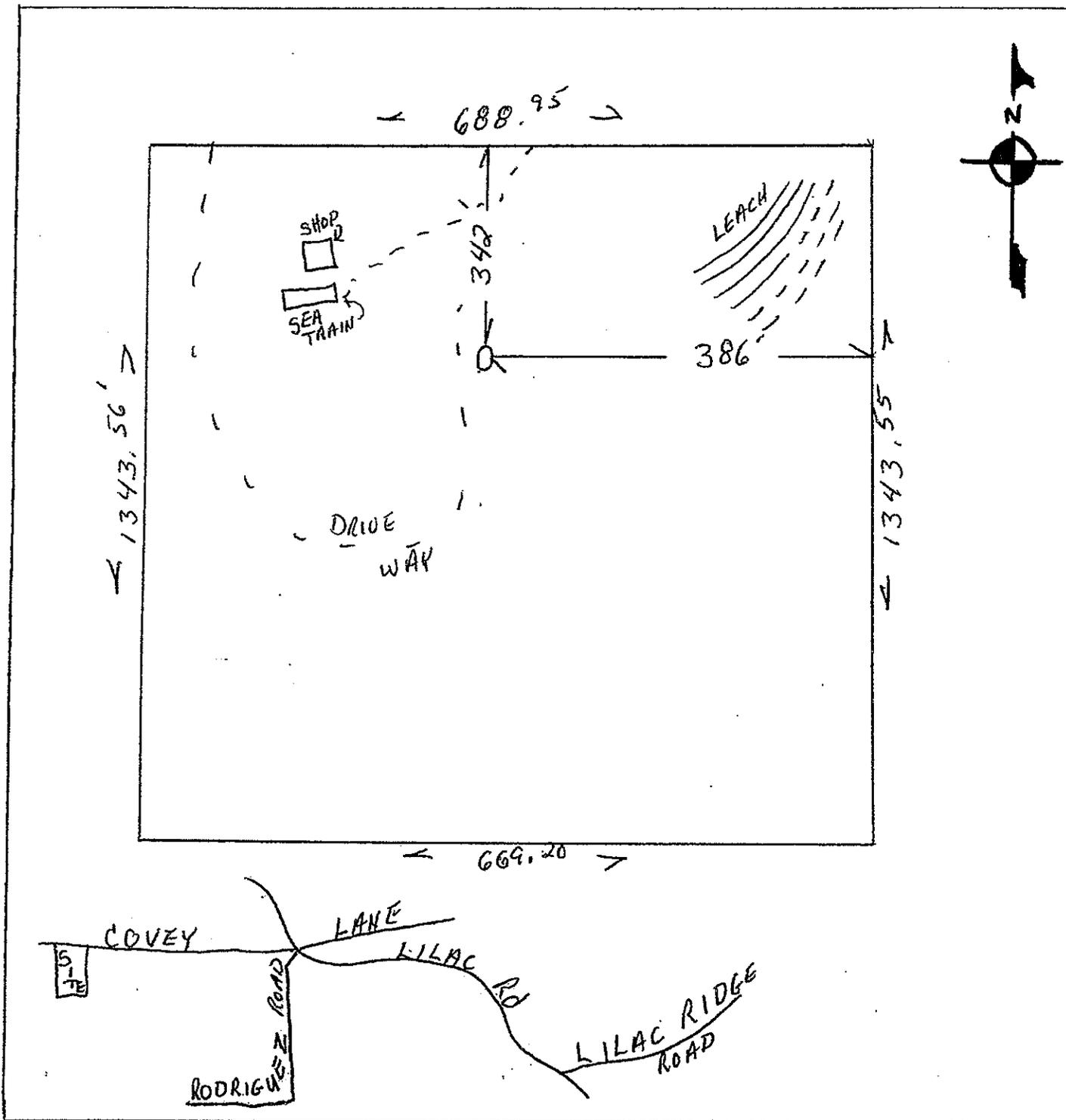
LOCATION

INDICATE BELOW THE VICINITY AND EXACT LOCATION OF WELL WITH RESPECT TO THE FOLLOWING ITEMS: PROPERTY LINES, WATER BODIES OR WATER COURSES, DRAINAGE PATTERN, ROADS, EXISTING WELLS, SEWERS AND PRIVATE SEWAGE DISPOSAL SYSTEMS AND OTHER POTENTIAL CONTAMINATION SOURCES, INCLUDING DIMENSIONS.



LOCATION

INDICATE BELOW THE VICINITY AND EXACT LOCATION OF WELL WITH RESPECT TO THE FOLLOWING ITEMS: PROPERTY LINES, WATER BODIES OR WATER COURSES, DRAINAGE PATTERN, ROADS, EXISTING WELLS, SEWERS AND PRIVATE SEWAGE DISPOSAL SYSTEMS AND OTHER POTENTIAL CONTAMINATION SOURCES, INCLUDING DIMENSIONS.



QUADRUPPLICATE
For Local Requirements

WDR sent to sm 6/18

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page 1 of 1 Dove Trail

Owner's Well No. INT # CCO 301

No. 575822 WCH

Date Work Began 4-18-94, Ended 4-27-94

Local Permit Agency DEPARTMENT OF HEALTH SERVICES 125

Permit No. W62671 Permit Date 3-17-94

GEOLOGIC LOG

WELL OWNER

ORIENTATION (∠) VERTICAL HORIZONTAL ANGLE (SPECIFY)

Name OTIS P. HEHLD

DEPTH TO FIRST WATER 130 (Ft.) BELOW SURFACE

Mailing Address 76 BOX 1767

DEPTH FROM SURFACE	
Ft.	to Ft.
0	15
15	60
60	130
130	131
131	217
217	218
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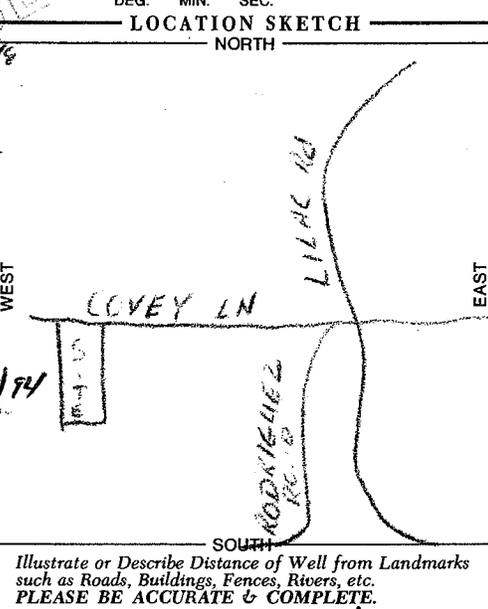
DESCRIPTION

Describe material, grain size, color, etc.

0 15 TOPSOIL & DECOMPOSED ORGANIC
15 60 BLACK & WHITE DIORITE
60 130 BLACK & WHITE WITH QUARTZ
130 131 FRACTURE @ GRN
131 217 BLACK & WHITE DIORITE QUARTZ
217 218 FRACTURE NO MORE ATCH
218 219 BLACK & WHITE DIORITE
219 220 BLACK & WHITE DIORITE
220 230 BLACK & WHITE DIORITE WITH QUARTZ
230 231 FRACTURE @ GRN
231 232 BLACK & WHITE DIORITE QUARTZ
232 233 BLACK & WHITE DIORITE
233 234 BLACK & WHITE DIORITE
234 235 BLACK & WHITE DIORITE
235 236 BLACK & WHITE DIORITE
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WELL LOCATION

Address 9603 CONVEY LN
City VALLEY CENTER CA, 92082
County SAN DIEGO
APN Book 129 Page 010 Parcel 72
Township _____ Range _____ Section _____
Latitude _____ Longitude _____



ACTIVITY (∠)

NEW WELL
 MODIFICATION/REPAIR
 Deepen
 Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S) (∠)

MONITORING

WATER SUPPLY

Domestic
 Public
 Irrigation
 Industrial

"TEST WELL"

CATHODIC PROTECTION
 OTHER (Specify)

DRILLING METHOD ROTARY AIR FLUID _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 106 (Ft.) & DATE MEASURED 4-27-94

ESTIMATED YIELD 50-60 (GPM) &



COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
WELL PERMIT APPLICATION

DEH USE ONLY
PERMIT # W
WELL COMPUTER #
FEE: _____
WATER DIST: _____

1. Property Owner: FRANCISCO J. RIVERA Phone: 760 749-2097
9883 W. LILAC RD ESCONDIDO 92026
Mailing Address City Zip

2. Well Location - Assessors Parcel Number 129-010-68 Valley Center 92082
9883 W. LILAC RD 9749 Covey Ln ESCONDIDO 92026
Site Address City Zip

3. Well Contractor - Well Driller DAVE MATTHEWS Company Name: FRAIN DRILLING
12029 OLD CASTLE RD VALLEY CENTER 92082
Mailing Address City Zip

Phone#: 760-749-0701 C-57# 32287 Cash Deposit Bond Posted

4. Use: Private Public Industrial Cathodic Other AGG - well

5. Type of Work: New Reconstruction Destruction Time Extension: 1st 2nd

6. Type of Equipment: Rotary - Air -

7. Depth of Well: Proposed: 400 Existing: 0

8. Proposed:

Casing	Conductor Casing	Filter/Filler Material	Perforations
Type: <u>steel</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Depth: <u>40-60</u>	Depth: _____ ft.	From: _____ To: _____	From: <u>0</u> To: _____
Diameter: <u>8</u> in.	Diameter: _____ in.	Type: _____	From: _____ To: _____
Wall/Gauge: <u>188</u>	Wall/Gauge: _____	Wall/Gauge: _____	From: _____ To: _____

9. Annular Seal: Depth: 20+ ft. Sealing Material: Cement
 Borehole diameter: 14 in. Conductor diameter: 8 in. Annular Thickness 3 in.

10. Date of Work: Start: 2-14-06 Complete: 2-20-06

On sites served by public water, contact the local water agency for meter protection requirements.
 I hereby agree to comply with all regulations of the Department of Environmental Health, and with all ordinances and laws of the County of San Diego and the State of California pertaining to well construction, repair, modification and destruction. Immediately upon completion of work, I will furnish the Department of Environmental Health with a complete and accurate log of the well. I accept responsibility for all work done as part of this permit and all work will be performed under my direct supervision.

COPI 1 7PM7

Contractor's Signature: [Signature] Date: 2-13-06

DISPOSITION OF APPLICATION (Department of Environmental Health Use only)

Approved Denied Special Conditions: Grading and clearing associated with access to, or the construction, maintenance or destruction of water wells, may require additional permits from the County of San Diego and/or other agencies. Due to proximity to creek, concrete slab shall be required around well casing/seal.

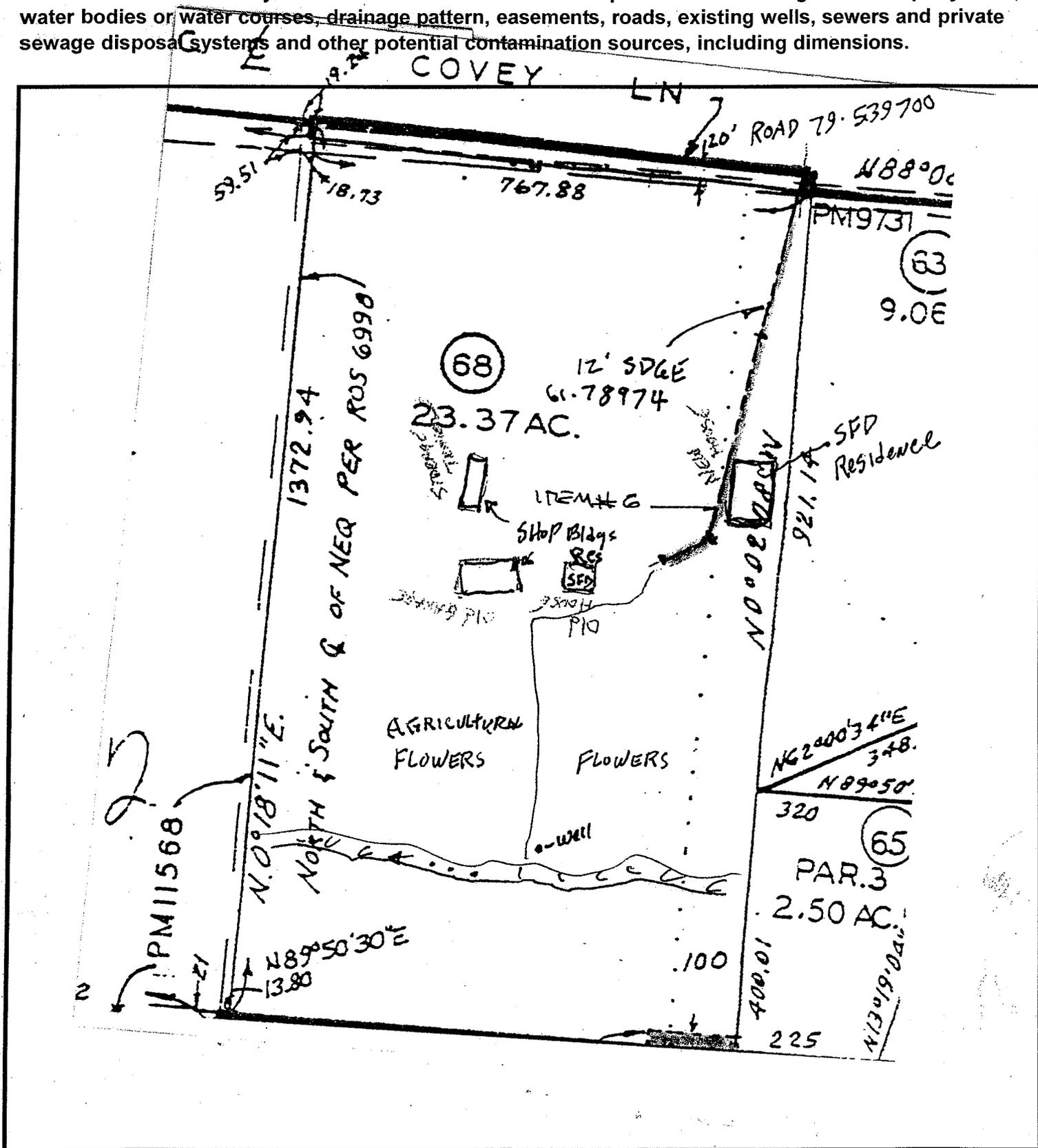
Specialist: [Signature] Date: 2-14-06

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH

Control #: _____
Assessor's Parcel Number: 129-010-68

LOCATION

Indicate below the vicinity and exact location of well with respect to the following items: Property lines, water bodies or water courses, drainage pattern, easements, roads, existing wells, sewers and private sewage disposal systems and other potential contamination sources, including dimensions.



QUADRUPPLICATE
For Local Requirements

R.S.

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page 1 of 1 Flower Farm 1

Owner's Well No. ONE

No. **1097746**

Date Work Began 2/15/06, Ended 2/14/06

Local Permit Agency DEH

Permit No. LWEL 17753 Permit Date 2/14/06

GEOLOGIC LOG

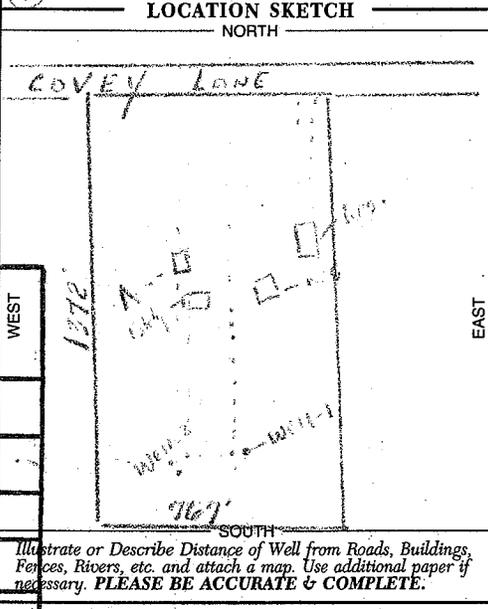
ORIENTATION (∠)		DRILLING METHOD		FLUID		DESCRIPTION
VERTICAL	HORIZONTAL	ANGLE	(SPECIFY)	Rotary	Air	
DEPTH FROM SURFACE		Ft. to Ft.		Describe material, grain size, color, etc.		
0	3				Slippe wash - sandy decomposed Granite - brown color	
3	21				Decomposed granite - grey color	
21	36				Bed rock - granite - grey color	
36	37				Fracture - 1st water 15 gpm	
37	40				Granite, hard - grey color	
40	42				Fracture (water) 18 gpm	
42	310				Hard, massive, granitiorite grey color	

WELL OWNER

Name Francisco J. Rivera
Mailing Address 9802 W. Lilac Rd.
CITY Escondido CA 92026 STATE ZIP

WELL LOCATION

Address 9749 Covey Lane
City Valley Center
County San Diego
APN Book 129 Page 010 Parcel 65
Township 105 Range 27 Section 19
Lat 33 DEG. 16 MIN. 59 SEC. N Long 117 DEG. 10 MIN. 49 SEC. W



ACTIVITY (∠)

NEW WELL

MODIFICATION/REPAIR

Deepen
 Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES (∠)

WATER SUPPLY

Domestic Public
 Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDIATION

OTHER (SPECIFY)

Completed Well Construction

Date 5/25/06

Date Inspected 5/23/06

Comments N 33.28333°
X W 117.12376°
elev: 863'

Water Sample Taken? N

Reviewed By A. Sotomayor

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 310 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 15 (Ft.) & DATE MEASURED 2-16-06

ESTIMATED YIELD * 33 (GPM) & TEST TYPE public

TEST LENGTH 4 (Hrs.) TOTAL DRAWDOWN 30 (Ft.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 310 (Feet)

TOTAL DEPTH OF COMPLETED WELL 310 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)							
		TYPE (∠)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
Ft. to Ft.	BLANK	SCREEN	CON-DUCTOR	FILL PIPE					
0 to 22	14	X				Steel	8	.188	

DEPTH FROM SURFACE	ANNULAR MATERIAL			
	TYPE			
Ft. to Ft.	CE-MENT (∠)	BEN-TONITE (∠)	FILL (∠)	FILTER PACK (TYPE/SIZE)
0 to 20	X			

ATTACHMENTS (∠)

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME FAIN DRILLING & PUMP CO INC
(PERSON, FIRM, OR CORPORATION), (TYPED OR PRINTED)

12029 Old Castle Rd. Valley Center, ca 92082

ADDRESS CITY STATE ZIP

Signed Joe R. Fain DATE SIGNED 2-23-06 328287
C-57 LICENSED WATER WELL CONTRACTOR DATE SIGNED C-57 LICENSE NUMBER

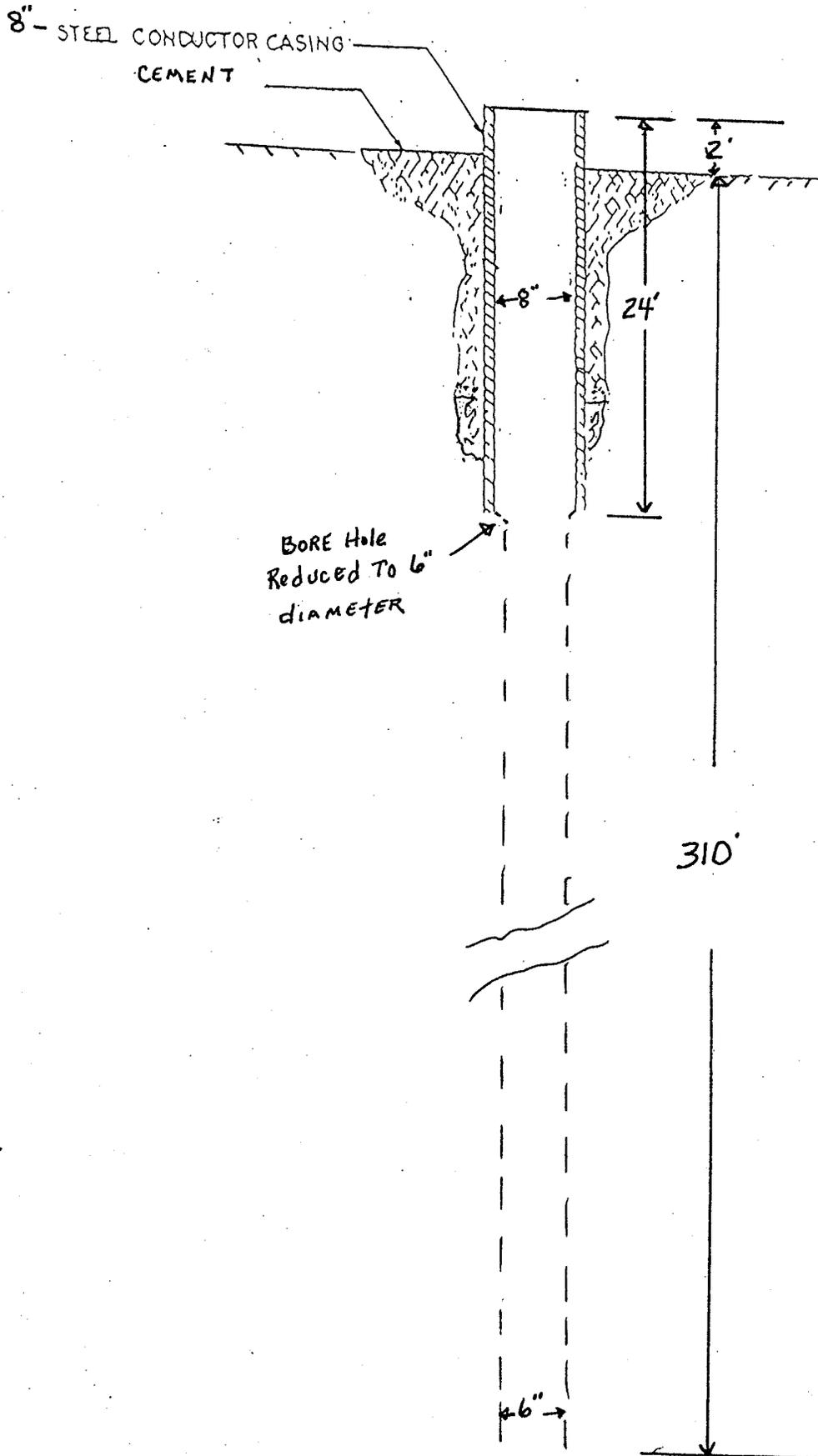
L. WEL 1/1/50

AS BUILT

FRANCISCO J. RIVERA

WELL NO. ONE

Flower Farm 1





COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH WELL PERMIT APPLICATION

DEH USE ONLY PERMIT # W WELL COMPUTER # FEE: WATER DIST:

1. Property Owner: FRANCISCO J. RIVERA Phone: 760 749-2097 9749 COVEY LANE Valley Center 92082

2. Well Location - Assessors Parcel Number 129-010-68 9749 COVEY LN Valley Center 92082

3. Well Contractor - Well Driller Dave Matthews Company Name: FAIN Drilling 12029 OLD CASTLE RD Valley Center 92082 Phone#: 760-749-0701 C-57#: 328287

4. Use: Private Public Industrial Cathodic Other AGG. well 5. Type of Work: New Reconstruction Destruction Time Extension: 1st 2nd

6. Type of Equipment: Rotary 7. Depth of Well: Proposed: 100-200 Existing: 0

8. Proposed: Casing Conductor Casing Filter/Filler Material Perforations Type: STILL Depth: 25' Diameter 8" Wall/Gauge: .188

9. Annular Seal: Depth: 20 ft. Sealing Material: CEMENT Borehole diameter: 14 in. Conductor diameter: 8 in. Annular Thickness 2.5 in.

10. Date of Work: Start: 2-17-06 Complete: 2-18-06

On sites served by public water, contact the local water agency for meter protection requirements. I hereby agree to comply with all regulations of the Department of Environmental Health...

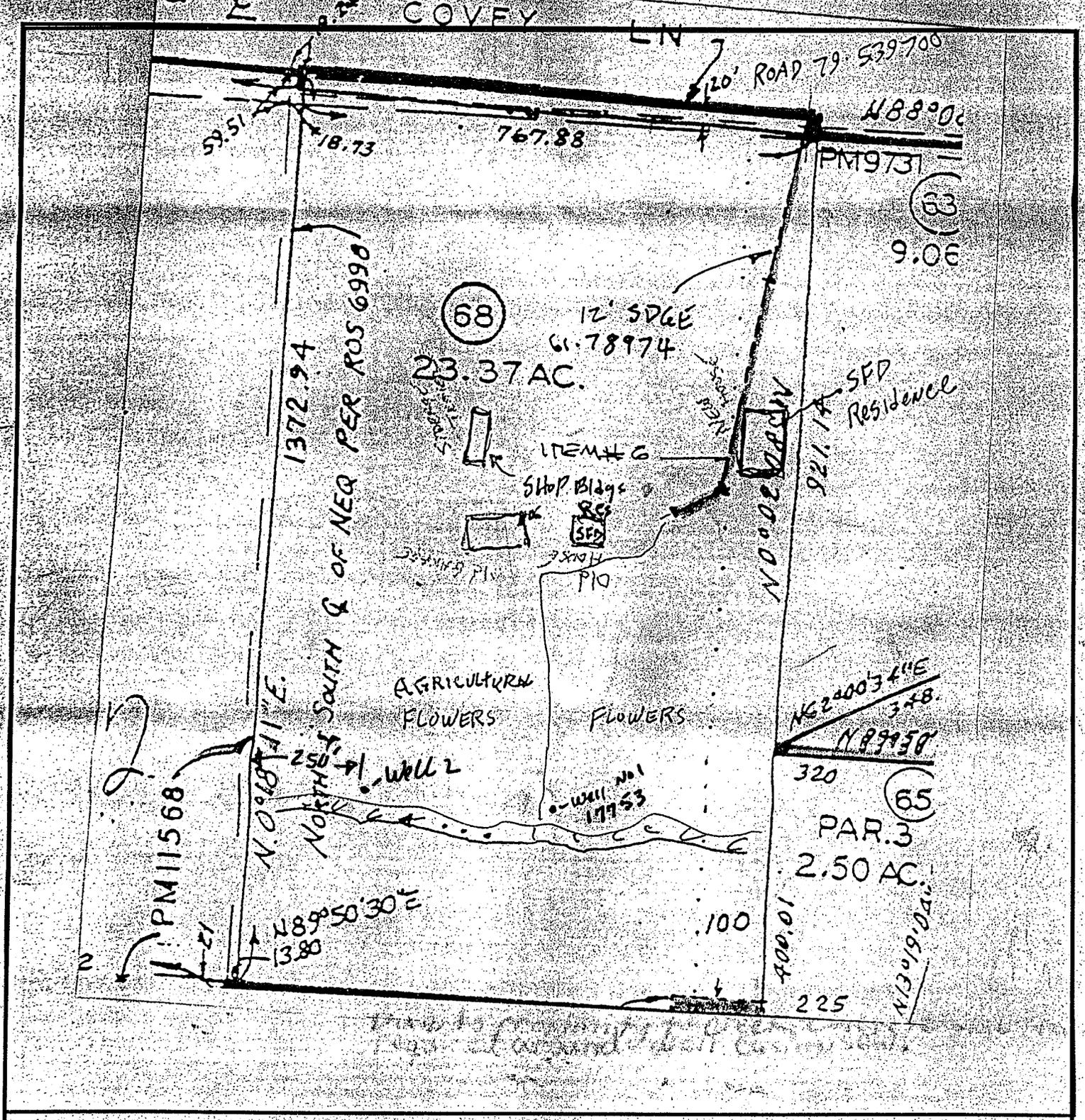
LWEL 17770

Contractor's Signature: [Signature] Date: 2-17-06

DISPOSITION OF APPLICATION (Department of Environmental Health Use only) Approved Denied Special Conditions Grading and clearing associated with access to, or the construction, maintenance or destruction of water wells...

LOCATION

Indicate below the vicinity and exact location of well with respect to the following items: Property lines, water bodies or water courses, drainage pattern, easements, roads, existing wells, sewers and private sewage disposal systems and other potential contamination sources, including dimensions.



REC'D IN D.M. 7/20/06

TRIPPLICATE For Local Requirements

STATE OF CALIFORNIA WELL COMPLETION REPORT

DWR USE ONLY - DO NOT FILL IN. STATE WELL NO./STATION NO., LATITUDE, LONGITUDE, APN/TRS/OTHER.

Page 1 of 1 Flower Farm 2

Refer to Instruction Pamphlet No. 1097747

Owner's Well No. Two Date Work Began 2/20/06, Ended 2/21/06

Local Permit Agency DEN Permit No. LWEL 17770 Permit Date 2/17/06

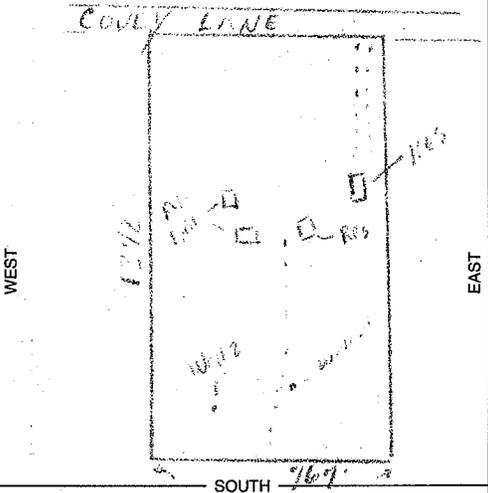
GEOLOGIC LOG

Table with columns: ORIENTATION, DRILLING METHOD, FLUID, DESCRIPTION, and depth (Ft. to Ft.). Includes entries like 'Fill Silty sand', 'Decomposed granite', 'Fracture in bed rock (water) 15 gpm', 'Granite - grey color', 'Fracture Water 15 gpm', 'Granite, hard, grey color'. Note: 'NOTE: no additional water'.

WELL OWNER

Name: Francisco J. Rivera, Mailing Address: 9883 W. Valley Rd., City: Escondido, Ca 92026, STATE: CA, ZIP: 92026. Address: 9749 Covey Lane, City: Valley Center, County: San Diego, APN Book: 129 Page: 010 Parcel: 68, Township: 33S Range: 2W Section: 19, Lat: 32.7114 N Long: 117.07264 W.

LOCATION SKETCH



ACTIVITY

- NEW WELL
MODIFICATION/REPAIR: Deepen, Other (Specify)
DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")
USES: WATER SUPPLY (Domestic, Public, Irrigation, Industrial), MONITORING, TEST WELL, CATHODIC PROTECTION, HEAT EXCHANGE, DIRECT PUSH, INJECTION, VAPOR EXTRACTION, SPARGING, REMEDIATION, OTHER (SPECIFY)

Completed Well Construction Date 5/25/06, Date Inspected 5/23/06, Comments N 33. 28299° x W 117. 12399° elev: 845', Water Sample Taken? N, Reviewed By N. Seary

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 12 (Ft.) BELOW SURFACE, DEPTH OF STATIC WATER LEVEL 10 (Ft.) & DATE MEASURED, ESTIMATED YIELD 30 (GPM) & TEST TYPE, TEST LENGTH 2 (Hrs.) TOTAL DRAWDOWN 28 (Ft.), * May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 110 (Feet), TOTAL DEPTH OF COMPLETED WELL 110 (Feet)

Table with columns: DEPTH FROM SURFACE, BORE-HOLE DIA. (Inches), CASING (S) TYPE, MATERIAL / GRADE, INTERNAL DIAMETER (Inches), GAUGE OR WALL THICKNESS, SLOT SIZE IF ANY (Inches). Includes entries for Steel casing at depths 0-21 and 21-41 feet.

Table with columns: DEPTH FROM SURFACE, ANNULAR MATERIAL TYPE, CE-MENT, BEN-TONITE, FILL, FILTER PACK (TYPE/SIZE). Includes entry for cement at depth 0-20 feet.

- ATTACHMENTS: Geologic Log, Well Construction Diagram, Geophysical Log(s), Soil/Water Chemical Analyses, Other. ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT: I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. NAME: FAIN DRILLING & PUMP CO INC, ADDRESS: 12029 Old Castle Rd. Valley center, Ca 92082, Signed: N. Seary, C-57 LICENSED WATER WELL CONTRACTOR, DATE SIGNED: 2-23-06, C-57 LICENSE NUMBER: 328287.

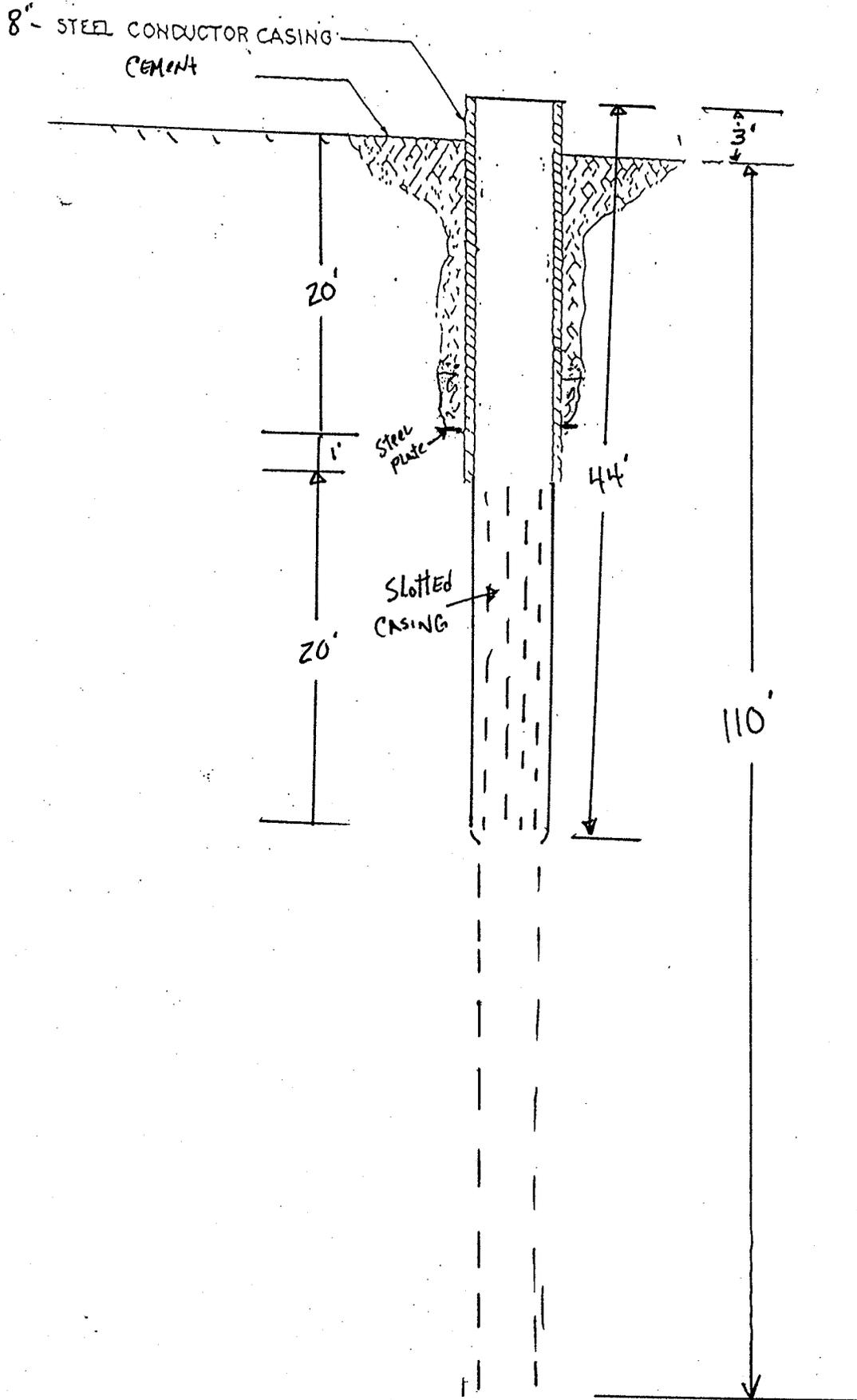
L. W. W. 1/1/70

"AS BUILT"

FRANCISCO J. RIVERA

Well - 2

Flower Farm 2



Appendix A-2 Pump Test Data

Dove Trail Well

L.O. LYNCH, INC
Quality Wells and Pumps

Well Pump Test
Permit #575822
Pump Set: 800
Customer: Stehly Enterprises
(Dove Trail Ranch)

DATE	TIME	W/L	GPM
6/1/09	10:40	123	150
6/1/09	10:40	634	150
6/1/09	10:55	700	50
6/1/09	11:00	720	50
6/1/09	11:25	724	50
6/1/09	11:55	724	50
6/1/09	12:06	724	50
6/1/09	12:50	724	50
6/1/09	1:15	724	50
6/1/09	1:30	724	50
6/1/09	2:05	724	50
6/1/09	3:00	724	50

Appendix A-3 Groundwater Quality

551

**Fallbrook
Ag-Laboratory, Inc.**

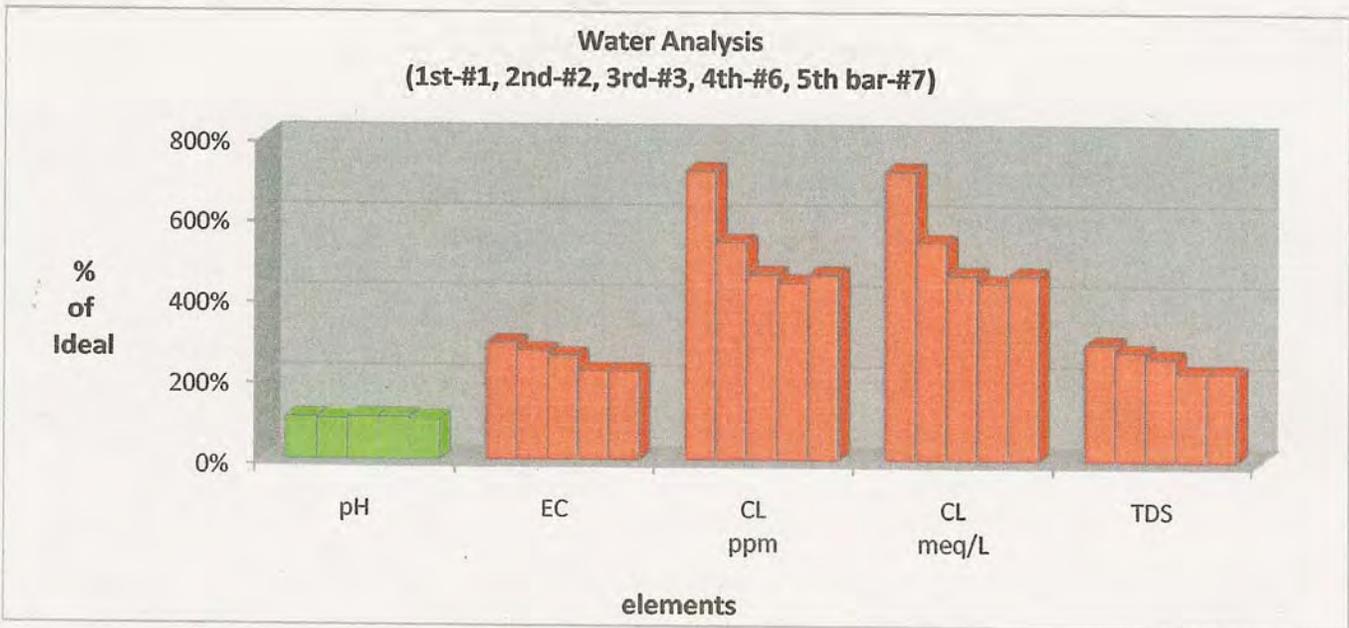
P.O. Box 1269 • 455 East Alvarado Street • Fallbrook, CA 92088
(760) 728-4828 • Fax (760) 728-6301

6-Apr-11

Accretive Investments, Inc.
attn: Jon D Rilling
12275 El Camino Real Suite 110
San Diego CA 92130

re:Well Water Analysis - 32444 Birdsong Drive

Water(W-2963)	pH	EC	CL ppm	CL meq/L	TDS
#1 (#40 2")	7.3	2900	511	14.4	1856
#2 (1 1/4")	7.0	2700	383	10.8	1728
#3 (1.5")	7.4	2580	327	9.2	1651
#6 (2")	7.4	2200	312	8.8	1408
#7 (1 1/4")	6.9	2200	327	9.2	1408
Optimum Water	7.0	<1000	<70	<2	<640
% of Ideal #1	104%	290%	720%	720%	290%
% of Ideal #2	100%	270%	539%	540%	270%
% of Ideal #3	106%	258%	461%	460%	258%
% of Ideal #6	106%	220%	439%	440%	220%
% of Ideal #7	99%	220%	461%	460%	220%



Color Key:





Report Number 10-174-2159

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121
www.midwestlabs.com

Date Sampled: 06/11/10
Date Received: 06/16/10
Date Reported: 06/24/10
Page 1 of 1

06/24/10

1015

STEHLY ENTERPRISES INC
32542 AQUADUCT ROAD
BONSALL CA 92003-

ACCRETIVE GROUP

IRRIGATION WATER ANALYSIS

Sample ID 1
Labnum 1724857

ELEMENT	SODIUM	CALCIUM	MAGNESIUM	pH	NITRATE NITROGEN	SULFATE	CONDUCTIVITY	TOTAL DISSOLVED SOLIDS EST. FROM COND ppm	SODIUM ABSORPTION RATIO (SAR) CALCULATION	PHOSPHORUS	POTASSIUM	BICARBONATE	CHLORIDE	BORON	
Method Units	EPA 200.7 ppm	EPA 200.7 ppm	EPA 200.7 ppm	EPA 150.1 ppm	EPA 300.0 ppm	EPA 300.0 ppm	EPA 120.1 mmhos/cm			EPA 200.7 ppm	EPA 200.7 ppm	SM 2320 B ppm	EPA 300.0 ppm	EPA 200.7 ppm	
LEVEL FOUND	150	37.8	11.8	7.98	0.6	93	1.083	704	5.4	n.d.	3.9	75	214	0.13	
CRITICAL LEVEL	300	150	80	6.5/9	60	450	3.00	2000	4	1	60.0	400.0	200	0.8	
G R A P H I C PROBLEMS LIKELY POTENTIAL PROBLEMS NO APPARENT PROBLEMS															
	ADDITIONAL ELEMENTS														
	ELEMENT	CARBONATE													
	Method Units	EPA310.1 ppm													
LEVEL FOUND	0.67														

John Torpy
Technical Director
torpy@midwestlabs.com (402)829-9880

The result(s) issued on this report only reflect the analysis of the sample(s) submitted. Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

APPENDIX B
WATER WELL FLOW METER DATA

**RAHIMI WELL
FLOW METER DATA**

Date	Reading (gallons)	Cumulative Production (gallons)	Cumulative Production (acre-feet)
10/12/2011	50,000	0	0.0
10/18/2011	148,000	98,000	0.3
10/20/2011	195,000	145,000	0.4
10/26/2011	305,000	255,000	0.8
1/4/2012	858,000	808,000	2.5
1/11/2012	957,000	907,000	2.8
1/14/2012	1,000,000	950,000	2.9
2/2/2012	1,108,000	1,058,000	3.2
3/6/2012	1,432,000	1,382,000	4.2

**WELL 2
FLOW METER DATA**

Date	Reading (gallons)	Cumulative Production (gallons)	Cumulative Production (acre-feet)
7/5/2011 20:00	2,580,000	0	0
7/13/2011 16:12	2,583,000	3,000	0.0
8/22/2011 16:00	3,081,000	501,000	1.5
9/2/2011 7:30	3,227,000	647,000	2.0
9/6/2011 7:00	3,293,000	713,000	2.2
9/19/2011 1:30	3,442,000	862,000	2.6
9/23/2011 11:50	3,510,000	930,000	2.9
10/1/2011 11:00	3,615,000	1,035,000	3.2
10/7/2011 17:00	3,675,000	1,095,000	3.4
10/12/11 9:00	3,719,000	1,139,000	3.5
10/18/11 10:00	3,797,000	1,217,000	3.7
10/20/11 17:00	3,834,000	1,254,000	3.8
10/26/11 17:00	3,908,000	1,328,000	4.1
1/4/2012	4,305,000	1,725,000	5.3
1/11/2012	4,389,000	1,809,000	5.6
1/14/2012	4,423,000	1,843,000	5.7
2/2/2012	4,510,000	1,930,000	5.9
3/6/2012	4,758,000	2,178,000	6.7

WELL 3
FLOW METER DATA

Date	Reading (gallons)	Cumulative Production (gallons)	Cumulative Production (acre-feet)
7/5/2011 20:00	616000	0	0
8/22/2011 16:00	746000	130,000	0.4
9/19/2011 16:30	790000	174,000	0.5
9/23/2011 17:00	802000	186,000	0.6
10/1/2011 11:00	823000	207,000	0.6
10/7/2011 17:00	843000	227,000	0.7
10/12/11 9:00	855,000	239,000	0.7
10/18/11 10:00	867,000	251,000	0.8
10/20/11 17:00	877,000	261,000	0.8
10/26/11 17:00	896,000	280,000	0.9
1/4/2012	934,000	318,000	1.0
1/11/2012	945,000	329,000	1.0
1/14/2012	950,000	334,000	1.0
2/2/2012	972,000	356,000	1.1
3/6/2012	1,025,000	409,000	1.3

**WELL 4
FLOW METER DATA**

Date	Reading (gallons)	Cumulative Production (gallons)	Cumulative Production (acre-feet)
1/4/2012	2,029,000	0	0
1/11/2012	3,010,000	981,000	3.0
1/14/2012	3,426,000	1,397,000	4.3
2/2/2012	4,040,000	2,011,000	6.2
3/6/2012	6,271,720	4,242,720	13.0

**ZOSA 1
FLOW METER DATA**

Date	Reading (gallons)	Cumulative Production (gallons)	Cumulative Production (acre-feet)
1/30/2012	60,200	0	0
2/15/2012	90,800	30,600	0.1
2/29/2012	95,200	35,000	0.1
3/8/2012	100,400	40,200	0.1
7/18/2012	353,100	292,900	0.9

**ZOSA 2
FLOW METER DATA**

Date	Reading (gallons)	Cumulative Production (gallons)	Cumulative Production (acre-feet)
1/5/2012	43,029,600	0	0
1/19/2012	43,420,400	390,800	1.2
2/4/2012	43,720,900	691,300	2.1
2/18/2012	44,023,700	994,100	3.1
3/3/2012	44,454,000	1,424,400	4.4
3/8/2012	44,512,800	1,483,200	4.6

**FLOWER FARM 1
FLOW METER DATA**

Date	Reading (gallons)	Cumulative Production (gallons)	Cumulative Production (acre-feet)
1/4/2012	1,396,000	0	0
1/11/2012	2,799,000	1,403,000	4.3
1/14/2012	3,391,000	1,995,000	6.1
2/2/2012	4,356,000	2,960,000	9.1
3/6/2012	5,815,000	4,419,000	13.6

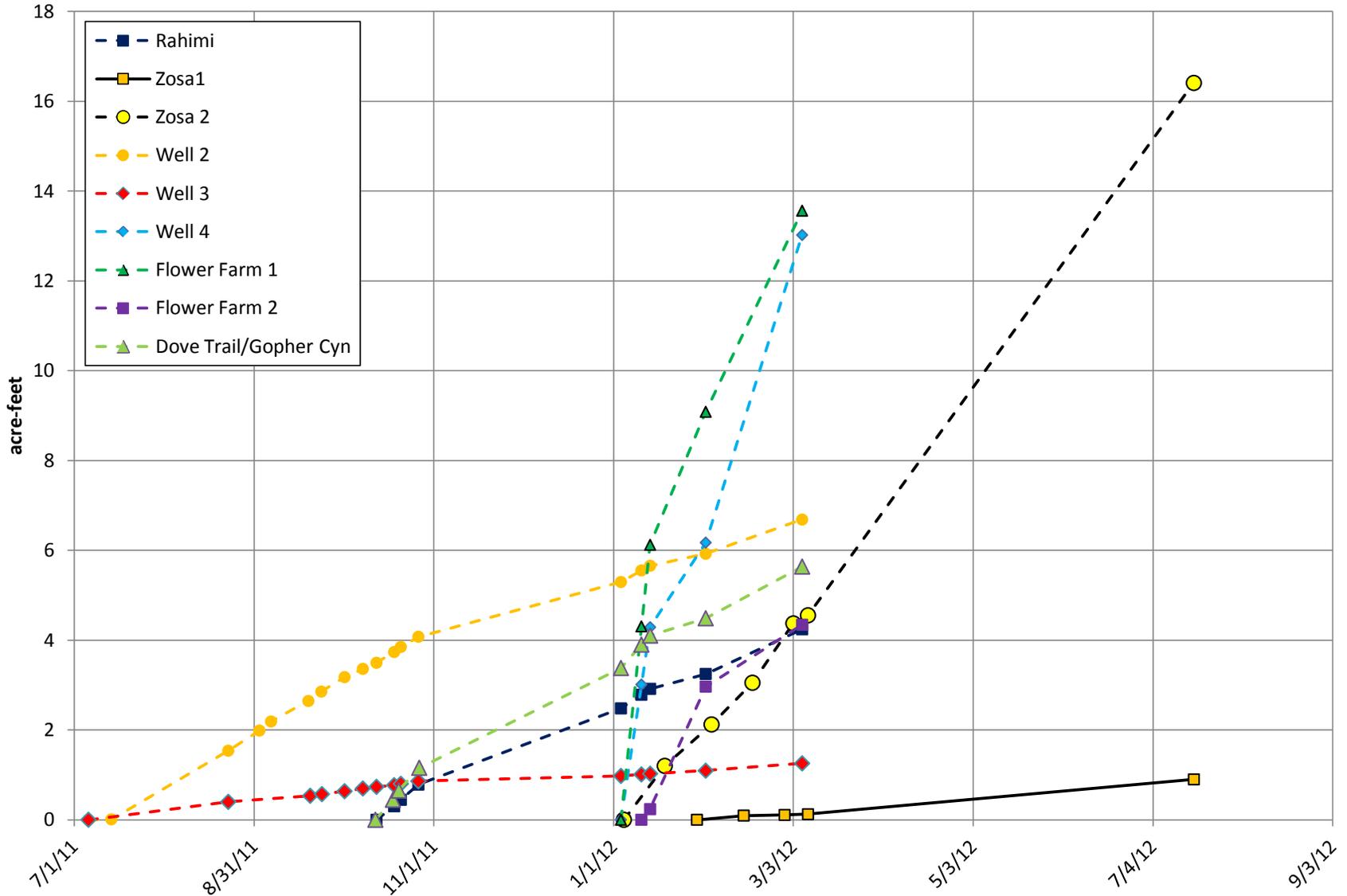
**FLOWER FARM 2
FLOW METER DATA**

Date	Reading (gallons)	Cumulative Production (gallons)	Cumulative Production (acre-feet)
1/4/2012			
1/11/2012			0.0
1/14/2012	77,000	77,000	0.2
2/2/2012	966,000	966,000	3.0
3/6/2012	1,415,000	1,415,000	4.3

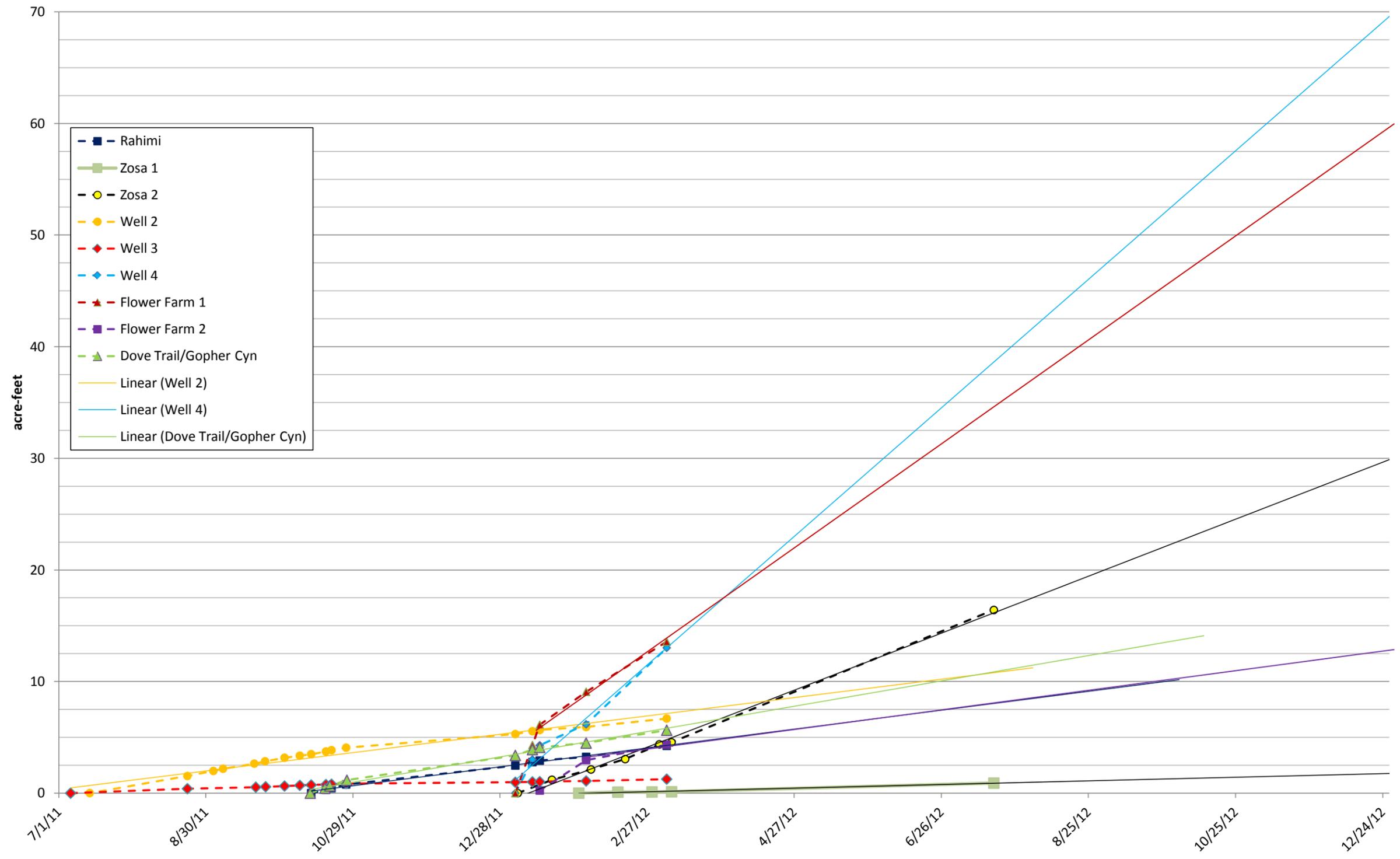
**DOVE TRAIL
FLOW METER DATA**

Date	Reading (gallons)	Cumulative Production (gallons)	Cumulative Production (acre-feet)
10/12/2011	98,000	0	0.0
10/18/2011	243,000	145,000	0.4
10/20/2011	310,000	212,000	0.7
10/27/2011	475,000	377,000	1.2
1/4/2012	1,199,000	1,101,000	3.4
1/11/2012	1,369,000	1,271,000	3.9
1/14/2012	1,434,000	1,336,000	4.1
2/2/2012	1,560,000	1,462,000	4.5
3/6/2012	1,935,000	1,837,000	5.6

Cumulative Groundwater Production Based On Available Flow Meter Data



Projection of Annual Groundwater Production
Based On Available Flow Meter Data



PROJECTED ANNUAL GROUNDWATER PRODUCTION FROM LIMITED FLOW METER DATA

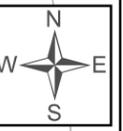
Well Identification	Duration of Record (days)	Projected Annual Groundwater Production (acre-ft)
Rahimi	146	10
Well 2	244	11
Well 3	244	3
Well 4	62	70
Flower Farm 1	62	60
Flower Farm 2	62	13
Dove Trail-Gopher Cyn	146	14
Zosa 1	Not Reported	30
Zosa 2	Not Reported	2
Total Projection		213

APPENDIX C
IRRIGATED AGRICULTURAL AREAS

APPENDIX C-1

VCMWD FLOW METER LOCATIONS AND WATER PURCHASES

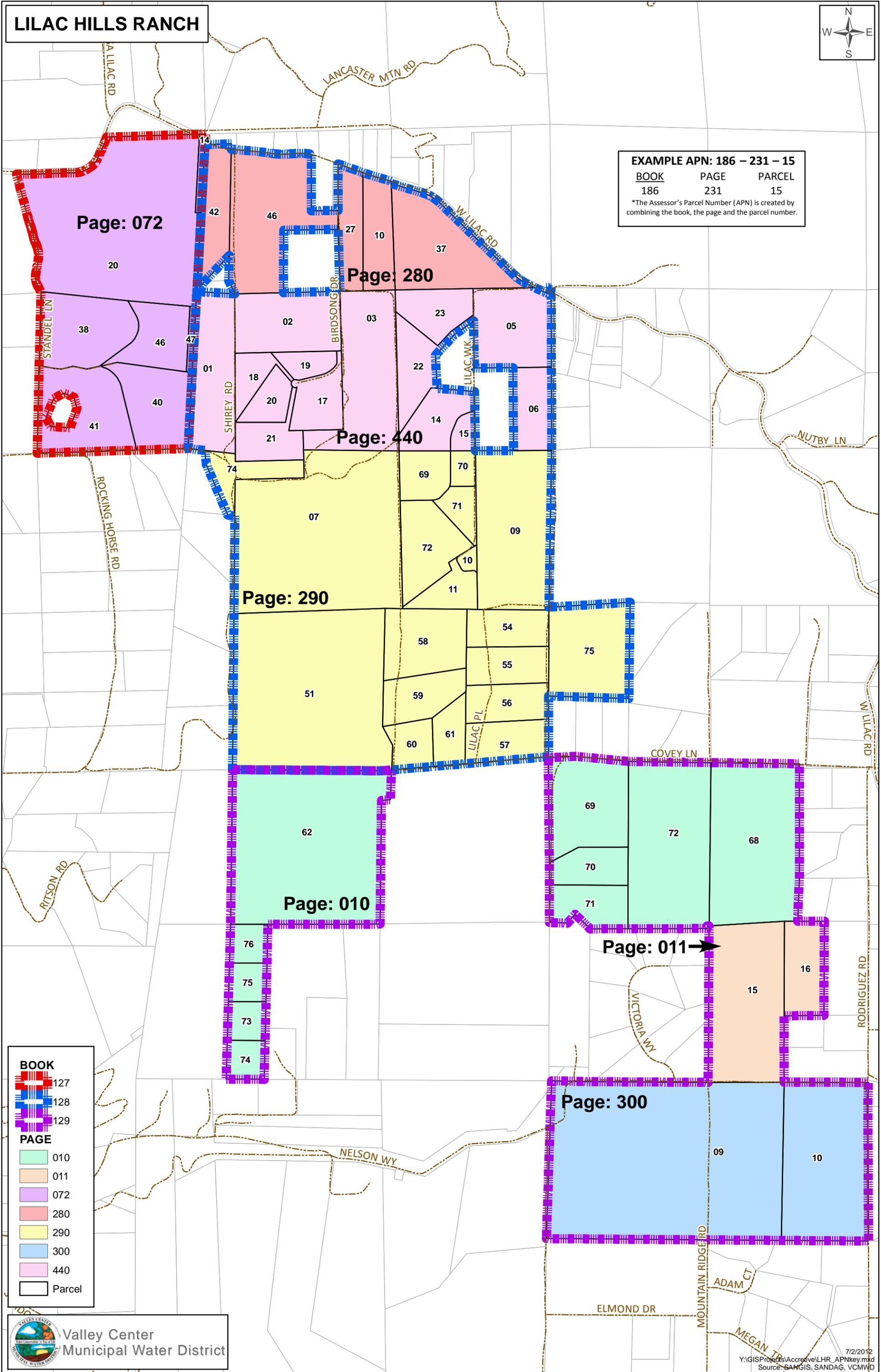
LILAC HILLS RANCH



EXAMPLE APN: 186 – 231 – 15

BOOK	PAGE	PARCEL
186	231	15

*The Assessor's Parcel Number (APN) is created by combining the book, the page and the parcel number.



BOOK	
	127
	128
	129
PAGE	
	010
	011
	072
	280
	290
	300
	440
	Parcel

VCMWD RECORD OF WATER DELIVERIES

Reported in HCF

Property ¹	AppNo	WSAID	ACCOUNT NO	NAME	STATUS	USER CODE	MTR SIZE	APN8	FY11 12	FY10 11	FY09 10	FY08 09	FY07 08	FY06 07	FY05 06	FY04 05	FY03 04	FY02 03	FY01 02	FY00 01	FY99 00	FY98 99	FY97 98
Zosa 1	164	164	1930486	SHIREY FALLS LP	OP	K	11/2	12844005	464	366	575	827	1,265	1,590	1,791	1,502	1,978	1,329	3,324	2,809	944	1,062	809
	254	254	1930360	ROEPKE/BLOKER	OP	SC	3	12829069	6,074	6,512	6,836	11,327	10,105	15,077	12,810	13,903	19,284	14,262	16,261	13,592	17,067	12,965	9,497
	353	353	1920721	NUTT, WAYNE	OP	CC	3/4	12828010	392	354	470	672	1,496	1,778	1,610	1,651	2,838	2,573	2,370	2,266	2,707	1,658	1,263
Flower Farm	366	366	1950634	RIVERA, VIRGINIA	OP	SC	2	12901068	1,013	1,612	2,439	3,187	5,968	7,690	4,108	3,769	5,132	3,786	3,971	2,697	2,842	2,641	1,685
	385	385	0620724	VENEGAS, RAYMUNDO & ALSIBIADES	IN	CF	11/2	12901116	0	0	0	0	1,510	2,548	5,620	1,631	620	0	0	0	0	0	0
	324	396	0630720	RODRIGUEZ, J	IN	A	2	12930009	0	0	0	0	0	0	0	0	0	0	1,623	8,285	12,698	12,706	8,623
	396	396	0640120	RODRIGUEZ, J	OP	SC	2	12930009	4,098	2,157	3,034	4,610	10,017	14,497	8,614	10,321	10,628	7,957	7,726	12,754	14,598	13,728	10,575
	1193	396	0630600	RODRIGUEZ, J	OP	SF	2	12930009	3,050	2,337	1,381	1,706	3,376	3,671	2,885	3,150	5,763	2,985	2,731	2,927	4,013	3,763	3,368
	1400	396	0630960	RODRIGUEZ, J	OP	SF	2	12930009	7,040	5,864	6,296	7,224	11,633	10,580	6,399	7,832	10,414	2,865	1,853	3,659	7,119	7,464	6,637
	563	563	1960182	LILAC CREEK ESTATES LP	IN	A	2	12829051	0	0	0	0	0	0	545	275	0	0	0	0	0	320	0
	800	800	1920365	SHIREY FALLS LP	OP	A	2	12844003	227	318	378	264	71	348	4	0	0	0	0	0	936	466	376
	891	891	1910543	TOMASIC, A	OP	CC	11/2	12828042	515	553	536	443	619	1,002	1,099	743	1,037	971	1,070	816	888	844	764
Rahimi-	927	927	1920273	SHIREY FALLS LP	OP	A	2	12844017	154	278	744	0	0	0	0	1,826	1,467	0	4,255	3,176	1,688	8,524	12,198
	1167	1167	0630551	VALENCIA, REFUGIO	OP	CF	2	12901115	2,460	2,202	2,403	2,726	8,972	10,749	8,631	3,267	2,848	9,195	13,662	20,050	26,254	22,295	18,846
	1298	1298	1930183	ZOSA, N	IN	F	11/2	12844022	0	0	0	0	0	0	0	0	0	0	0	45	5	2	676
	1329	1329	0630120	RODRIGUEZ, J	OP	SF	2	12930010	10,164	7,194	7,614	7,851	14,500	14,336	9,423	7,628	84	0	1,639	8,220	17,812	17,702	14,580
Dove Trail	1470	1470	1950812	GOPHER CANYON LP	OP	SF	2	12901072	1,533	338	5,179	9,580	16,486	20,665	17,223	16,846	24,097	20,984	25,423	21,991	25,903	22,935	13,884
Dove Trail	1498	1470	1950982	GOPHER CANYON LP	OP	SF	2	12901069	4,146	10,876	13,751	14,332	10,999	14,168	12,207	11,707	16,496	14,302	19,362	14,853	17,164	16,003	11,293
Zosa 2	1628	1628	1920984	SHIREY FALLS LP	OP	CC	2	12828037	2,703	2,365	3,587	4,133	4,595	5,827	647	2,145	1,847	1,317	1,467	1,389	1,529	1,288	726
	1643	1643	1900335	SHIREY FALLS LP	OP	SF	3	12707220	25,778	27,216	24,505	23,597	23,847	29,638	29,070	24,515	32,791	27,782	30,051	46,678	49,027	44,207	27,441
	1871	1871	1900390	DE LORESTAN ENT	OP	CC	3	12707238	29,507	22,941	25,568	23,307	27,406	34,464	33,634	29,031	43,025	41,103	46,066	41,632	49,027	33,291	19,643
	2330	2330	1930421	HARVEST TIME PRODUCE	OP	SC	2	12829009	14,855	11,621	12,722	12,678	15,779	18,265	17,268	14,193	19,410	16,556	20,216	20,116	17,905	13,449	10,461
	2626	2626	1960232	ALLIGATOR PEARS LP	OP	SF	3	12829057	5,243	10,519	14,913	13,641	10,228	16,353	20,263	19,114	23,680	18,144	20,744	16,534	18,798	15,945	12,108
	2686	2686	0690641	KAWAMURA, S	OP	CC	2	12707247	3,301	2,697	3,441	3,897	4,867	5,162	5,113	4,283	5,084	5,364	5,976	5,595	6,434	5,118	4,243
	5792	5792	1930193	SHIREY FALLS LP	OP	A	1	12844012	1,717	1,508	2,912	4,236	3,870	4,949	4,677	4,082	4,820	4,682	5,012	3,268	2,313	889	1,973
	6103	6103	1930290	CARLSON, LINDA	OP	A	1	12844006	663	669	882	933	1,230	843	693	679	251	89	166	60	1	6	0
Rahimi-	6539	6539	1920203	SHIREY FALLS LP	OP	A	1	12844002	57	175	388	177	66	18	5	6	81	51	181	0	0	0	0
	6807	6807	1950991	ALLIGATOR PEARS, LP	OP	F	1	12829058	427	949	425	0	0	672	1,583	1,265	2,128	1,672	1,900	1,726	1,900	1,550	929
	6808	6808	1960001	ALLIGATOR PEARS LP	OP	F	1	12829059	458	1,178	812	0	1	0	0	0	0	0	0	0	0	0	0
	6809	6809	1960011	ALLIGATOR PEARS LP	OP	F	1	12829060	663	1,562	858	0	0	0	0	0	0	0	0	0	0	0	0
	6810	6810	1960021	ALLIGATOR PEARS LP	OP	F	1	12829061	525	1,708	763	0	0	0	0	0	0	0	0	0	0	0	0
	8129	8129	0690703	NUNEZ, NORMA	OP	A	1	12829074	85	885	1,287	1,817	1,331	2,030	1,368	1,025	967	709	303	0	0	0	0

Notes: 1) Property designator by W&A, Inc., 2) Units in hundreds of cubic feet of water (HCF)

Totals (HCF): 127,312 126,954 144,699 153,165 190,237 236,920 207,290 186,389 236,770 198,678 237,352 255,138 299,572 260,821 192,598

Totals (acre-ft): 292 291 332 352 437 544 476 428 544 456 545 586 688 599 442

MUNICIPAL & INDUSTRIAL

USER CODE

A	=	Domestic
C	=	Domestic
D	=	Reclaimed Water
F	=	Commercial/Other
I	=	Commercial/Retail
IX	=	Public Agency
J	=	Multi-Domestic
K	=	Com'l Ag
CA	=	Com'l Ag
N	=	No Service

CERTIFIED AGRICULTURAL

CF	=	Certified Ag
CC	=	Certified Ag/Dom

SAWR

SF	=	SAWR-Ag
SC	=	SAWR-Ag/Dom

Part of Metropolitan's Interim Ag Water Program subject to 1/1/2008 30% reduction. Program ends 1/1/13.

Users have enough Ag to qualify for program, but also have a domestic use. Ag use subject to 2008 30% reduction, Dom use subject to regular cutbacks

APPENDIX C-2

GUVKO CVG'QHKTTH CVGF 'AGRICUNTURAL ACREAGE

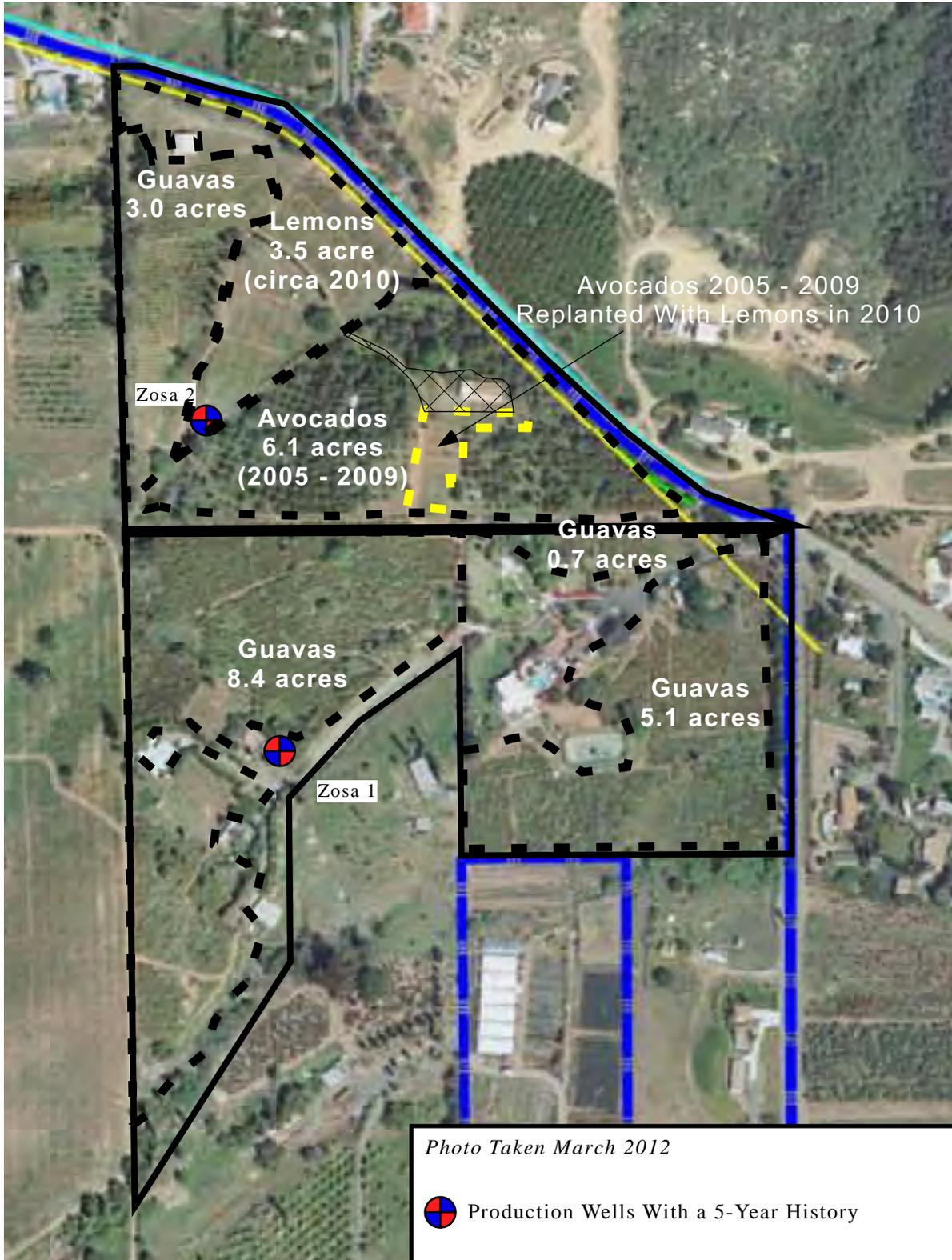


Photo Taken March 2012



Production Wells With a 5-Year History

**CROP ACREAGE REPORTED BY
ACCRETIVE INVESTMENTS**

0' 300'



Approximate Scale 1 inch = 300 feet



Information attested to by:

Jon Rilling

Demetrio Labuguin

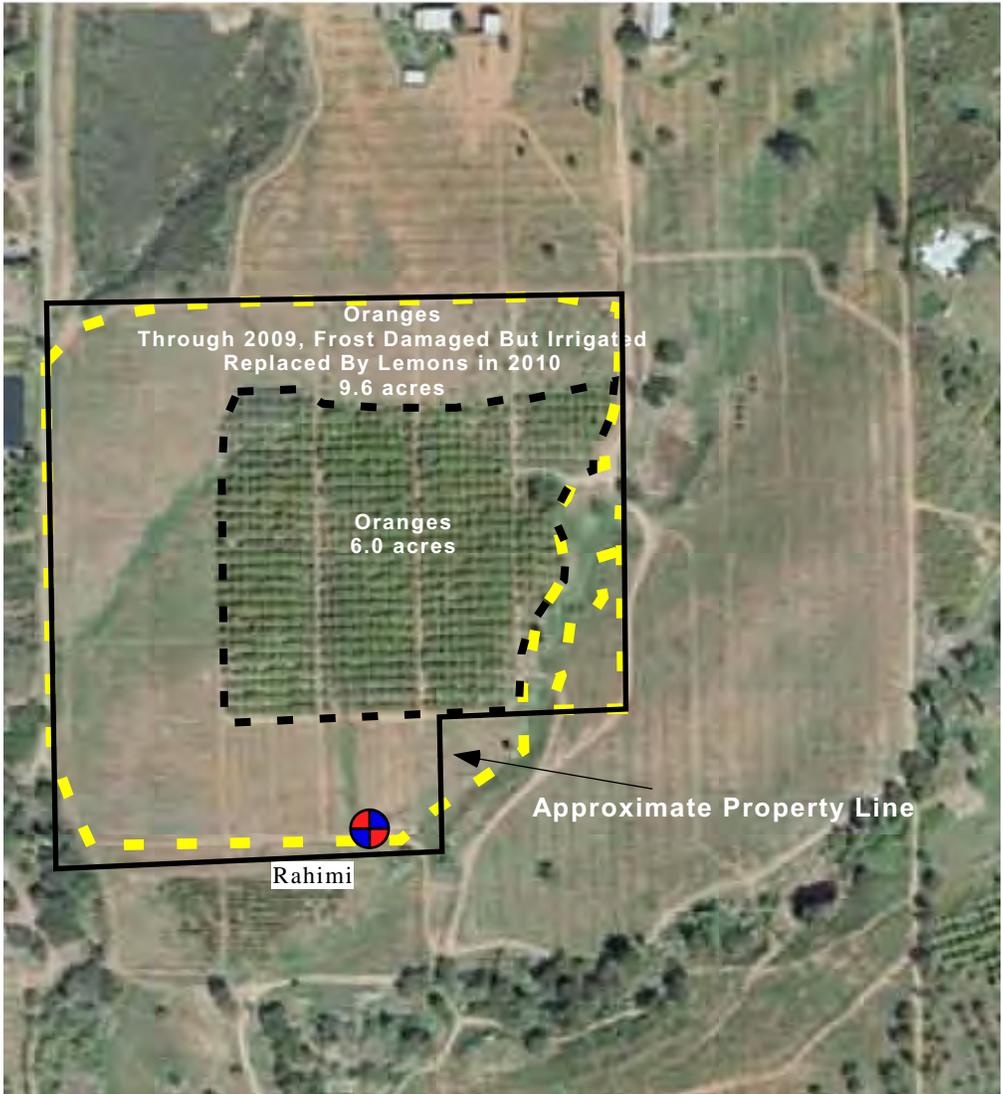


Photo Taken March 2012



Production Wells With a 5-Year History

**CROP ACREAGE REPORTED BY
ACCRETIVE INVESTMENTS**

0' 300'



Approximate Scale 1 inch = 300 feet



Information attested to by:

Jon Rilling

Jose Orozco

Photo Taken March 2012

 Production Wells With a 5-Year History



CROP ACREAGE REPORTED BY ACCRETIVE INVESTMENTS

0' 300'

Approximate Scale 1 inch = 300 feet

Information attested to by:
Jon Rilling
Jose Orozco

