

SOURCE YIELD REPORT AND WATER WELL EVALUATION

CRIPPLE CREEK RANCH PROPERTY (Also Van Wingerden Property)

East Los Alamos Valley
Santa Barbara County, California

Purpose

A testhole was drilled by A&A Pump & Well Service on the subject property in May of 2018 in order to confirm the existence of additional sources of potable ground water. A shallow existing water well (less than 400 feet) on the property confirmed the presence of Upper Paso Robles Formation aquifers in the area including the subject ranch. This current testhole was drilled to a total depth of 835 feet and penetrated deeper aquifers (reservoirs) in the Lower Paso Robles, as well as a separate reservoir in the Careaga Formation. Following the successful completion (running casing) of this testhole, a continuous four (4) hour constant rate pump test was performed on the water well by A&A Pump & Well Service. The objective of this pump test was to establish the presence of an adequate long term supply of potable water to service a future agricultural development on the subject property.

Location & Description

The Cripple Creek Ranch property is located in the eastern Los Alamos Valley, also known as the San Antonio Creek Ground Water Basin, approximately 5 miles east-northeast of the town of Los Alamos in central Santa Barbara County, California (Figures 1 & 2). The land itself is situated at the eastern end of the basin just north of US Highway 101 along Alisos Canyon Road. (Figure 2). The property can be reached by traveling north from US 101 on Alisos Cyn Rd. approximately 2.5 miles. The property consists of one parcel comprised of approximately 100 acres (Figure 4).

Based on multiple reports on the area ground water geology, Dibblee geologic maps and cross sections, and area water well and oil well data, a drillsite location was selected in the northeastern corner of the property, adjacent to existing power lines and infrastructure.

Topography & General Land Use

The subject property and wellsite lies just to the east of the town of Los Alamos in central Santa Barbara County along the foothills and slopes of the north flank of the San Antonio Creek Basin. The well is nearly 2 miles north of US Highway 101 at an elevation of approximately 800 feet above sea level (Figure 3). The Cripple Creek Ranch property is composed of 100.7 acres. The Assessor Parcel Number (Figure 4) for the property is 133-100-076.

Ranging in elevation from 760 feet to 1000 feet above sea level, the topography of the land is moderately to steeply sloping. The primary land use in this area is irrigated farming with row crops, flowers and grapes, as well as livestock grazing.

Geology/Hydrology

The Cripple Creek Ranch property is situated along the northern flank of the east-west trending San Antonio Creek Basin and the southern flank of the Zaca Anticline, which is a southerly extension of the folding and faulting which forms the San Rafael Mountain Range to the northeast (Figure 5). All of the older consolidated sediments as well as the younger unconsolidated sediments in this area are generally dipping south at low angles (5-20 degrees) away from the anticlinal feature on the north and toward the San Antonio Basin (syncline) on the south. The basin itself is asymmetrical with the gentle north flank of the basin underlying the subject property.

Most of the data used to compile the geologic picture are from area Dibblee maps, USGS maps and area well data that is derived primarily from old water wells and oil wells. The consolidated rocks that underlie the property consist of Tertiary-aged units of the Sisquoc and Monterey Formation. Comprised of predominately fractured shales, claystones and siltstones, these older sediments are not considered potential water sources, as they often are deeply buried and have very poor reservoir characteristics. Where they do contain water, it is typically of very poor (saline) quality and associated with oil.

On the other hand, the shallower, water-bearing sediments that underlie the subject lands are classified within the Paso Robles Formation and the underlying Careaga Formation, along with Quaternary Orcutt Sand and Alluvium. (Figure 6 & 7). In the case of the

subject property the surface and near-surface sediments are predominately sands, silts, gravels and clays of the Alluvium and the Paso Robles. Comprised of interbedded sand, silt, clay and gravel layers, the Paso Robles Formation is a widespread, non-marine or fluvial (river) deposit located throughout much of central and northern Santa Barbara County. The Paso Robles contains ground water aquifers that are the primary ground water source in Northern and Central Santa Barbara County. The average thickness of the Paso Robles in the San Antonio Basin typically ranges from 500 feet to 600 feet. However in the center of the basin the Paso Robles can be well over 1000 feet in thickness (Figure 8).

Lying beneath the Paso Robles is a second primary water-bearing interval, a zone of marine sediments known as the Careaga Formation. This unit is made up of a thick sequence of medium to very fine grained sands with very little clay and silt that can reach a total thickness of 600-700 feet. In most places within the basin, Careaga has not been penetrated as a water source due to its drilling depth being beyond 800-900 feet and the abundance of water located in the Paso Robles interval above it. However, the Careaga has recently become a target for water along the flanks of the basin in areas above the valley floor similar to that of the Cripple Creek property.

Hydrologically, the Cripple Creek parcel is within the eastern area of the San Antonio Creek Basin, an east-west trending basin or syncline that stretches approximately 25 miles from Zaca Station Road on the east to Vandenberg Air Force base on the west. (Figure 5). The basin is confined to the north by the consolidated rocks (Sisquoc and Monterey) of the Solomon Hills (Orcutt Anticline), and to the south by the consolidated rocks of the Purisima Hills (Purisima Anticline). To the west the basin's water is confined by the older Monterey shales that outcrop on Vandenberg AFB and doesn't communicate with the ocean. To the east this basin is confined in the subsurface by the older rocks of the Zaca Anticline and the San Rafael Mountains. Recharge to the basin and the area of the subject well is primarily via rainfall infiltration and creek seepage and runoff. However, some inflow to the aquifer(s) does occur through irrigation return flow/runoff and subsurface communication with upstream areas of the Basin.

New Cripple Creek Well

Following the analysis of the electric log (Appendix) and the associated drill cuttings from the drilled borehole, the testhole on the Cripple Creek property was successfully completed with 12 inch PVC casing (SDR-17) run to a depth of 810 feet (Appendix). The well has a screened (perforated) interval from 480 to 800 feet with 10 feet of

blank casing on bottom and blank casing from 480 feet to the surface (see Drillers Report in Appendix). The annular space (between the formation and the casing) of the well was gravel packed from 810 feet to 440 feet with Lapis #3, a uniform sand mix, and 440 feet to 60 feet with pea gravel. A cement/grout sanitary seal was placed from the top of the gravel at 60 feet to the surface, which was witnessed by this author.

The Cripple Creek testhole/well penetrated an interval thickness of around 500 feet of Paso Robles sands and gravels followed by 300+ feet of Careaga. The estimated top of the Careaga, per the drill cuttings, is 605 feet. The electric log indicated dry (no water saturation) sands in the Upper Paso Robles from surface to approximately 100 feet; the estimated top of the regional water table. Consequently the screened or perforated interval includes 125 feet of Lower Paso Robles and 205 feet of Upper Careaga Formation (See electric log in Appendix).

After the subject water well was air jetted to clean up the drilling mud in the gravel pack and near the wellbore interface, the well was surged and pumped for a few days at varying rates. Those rates varied from 500 gallons per minute (gpm) to 1000+ gpm. A continuous pump test was conducted for a period of 4 hours without interruption on June 1, 2018. Due to the need to pump to a confined space or constructed pit (State Law allows no discharge to creeks, streams, drainage areas or neighboring properties), the well pumping rate was restricted to 580 gallons per minute (gpm) for the first 3 hours in order to avoid overflow out the pit, and then reduced to 410 gpm. The static level of the well at the start of the pump test was 124.8 feet below grade or 295.2 feet above the pump setting at 420 feet. The corresponding fluid level (pumping level) at that rate (580 gpm) was 163 feet, but the well had not stabilized at that rate. Consequently the flowrate was reduced to 410 gpm for the final hour of the test and this resulted in a stabilized pumping level of 153.5 feet, equaling a total measured drawdown of 28.7 feet (Appendix). The total possible drawdown for this particular test would be 420 feet, the actual pump depth. Consequently, the observed percent of total drawdown ($28.7/420 - 124.8$) was only 9.7%. The specific capacity of the Cripple Creek well ($SC=Q/S=410/28.7$) is 14.2 gallons per foot of drawdown. The calculated values for both the specific capacity and the percent of drawdown indicate that the water bearing zones in this well is highly productive and can yield a significant amount of water over the long term.

Upon completion of the pump testing, a recovery period was observed and recorded. The fluid level rose to 129.3 feet or within approximately 5 feet of the starting static level (124.8 ft) within 30 minutes. Unfortunately due to some miscommunication, a water sample was not collected at the conclusion of the pumping phase of the test. However, at some point in the future when a permanent downhole pump is placed in this well, a water

sample can be taken and tested for drinking water standards (Title 22). Based on recent results from other new and existing water tests, it's expected that the produced water from the Cripple Creek Well will easily test below the MCL's (maximum contaminant levels) for general mineral, general physical, inorganics and metals analyses allowed by the California Health Dept. for potable water.

Conclusions

Based on the available data acquired from the subject well, the Cripple Creek Ranch water well is producing from a series of reservoir sands and gravels within the Lower Paso Robles Formation and the Upper Careaga Formation, the two primary water-bearing horizons in the San Antonio Creek Basin Area. According to the results of the pump test including the calculations for percent of total drawdown and specific capacity, the subject well can efficiently and safely produce water at rates ranging from 500 to 800 GPM. However, currently there is no existing infrastructure (flowlines, electrical service, downhole pump, valves, meters, etc.) in place to service either a domestic system or an ag irrigation system. Future decisions concerning these issues and the property's long term water needs must be made in order to properly design the systems that will eventually serve both the agricultural needs and potable water needs for the property.

It is my opinion that the subject water well will provide an adequate long term supply of water to a future single parcel domestic water system, and will adequately irrigate multiple acres of future crops. Eventually when a permanent submersible pump is placed in the well, it is suggested that an airline (flexible tubing) be included, so as to allow the well owner(s) to establish a simple monitoring program whereby both the static (non-operational) level and pumping level are recorded monthly and the water quality is tested for bacteria build-up every year. This minimal program will assist in proper reservoir and water supply maintenance over the long term operation of the well.

Respectfully submitted,

Dated: August, 2018



Charles E. Katherman
CA Reg. Geologist # 4069

CrippleCreek (VanWingerden)_SourceYieldReport&WaterwellEvaluation_August2018



Los Alamos

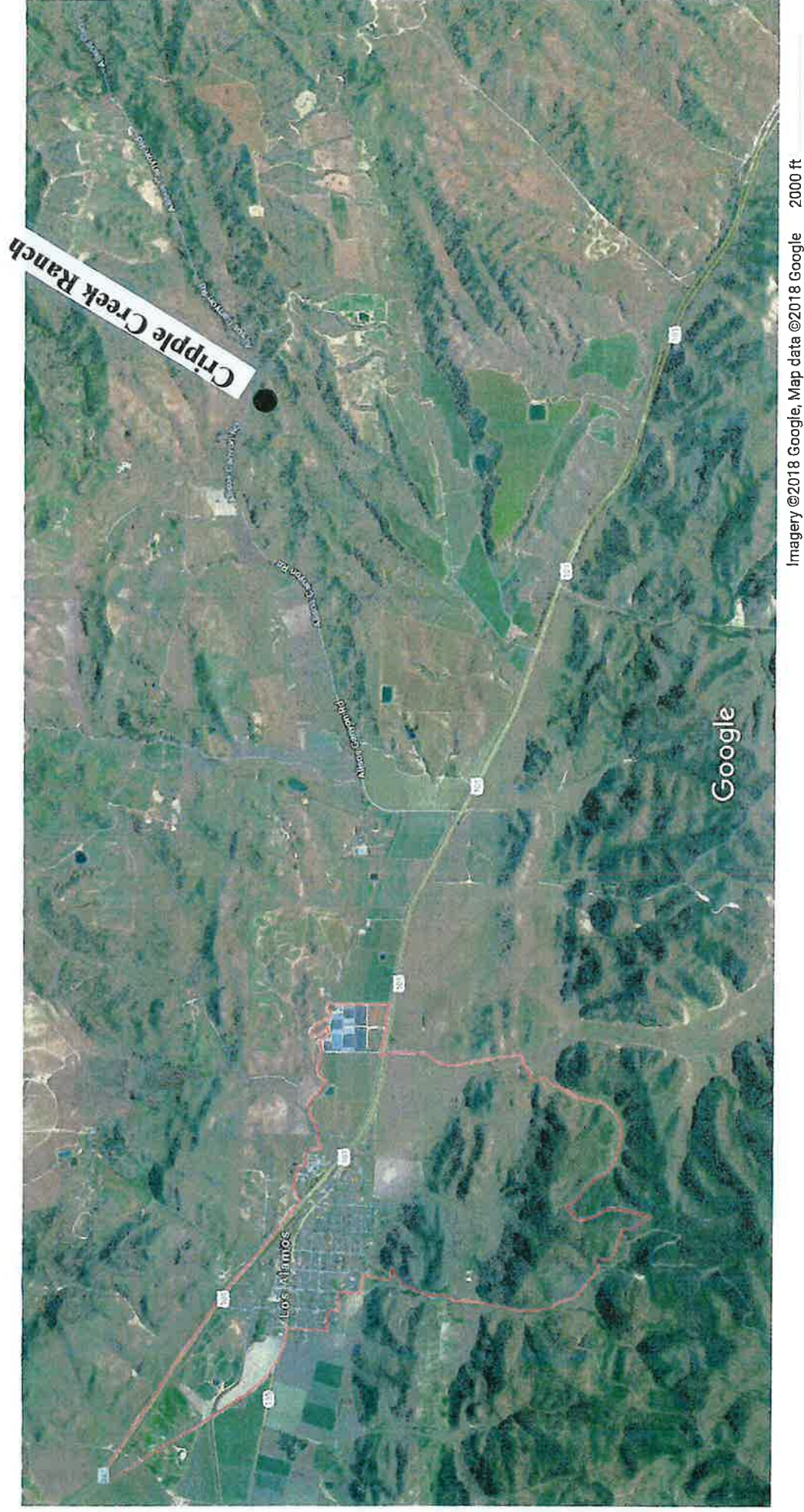


FIGURE 1
PROJECT LOCATION MAP

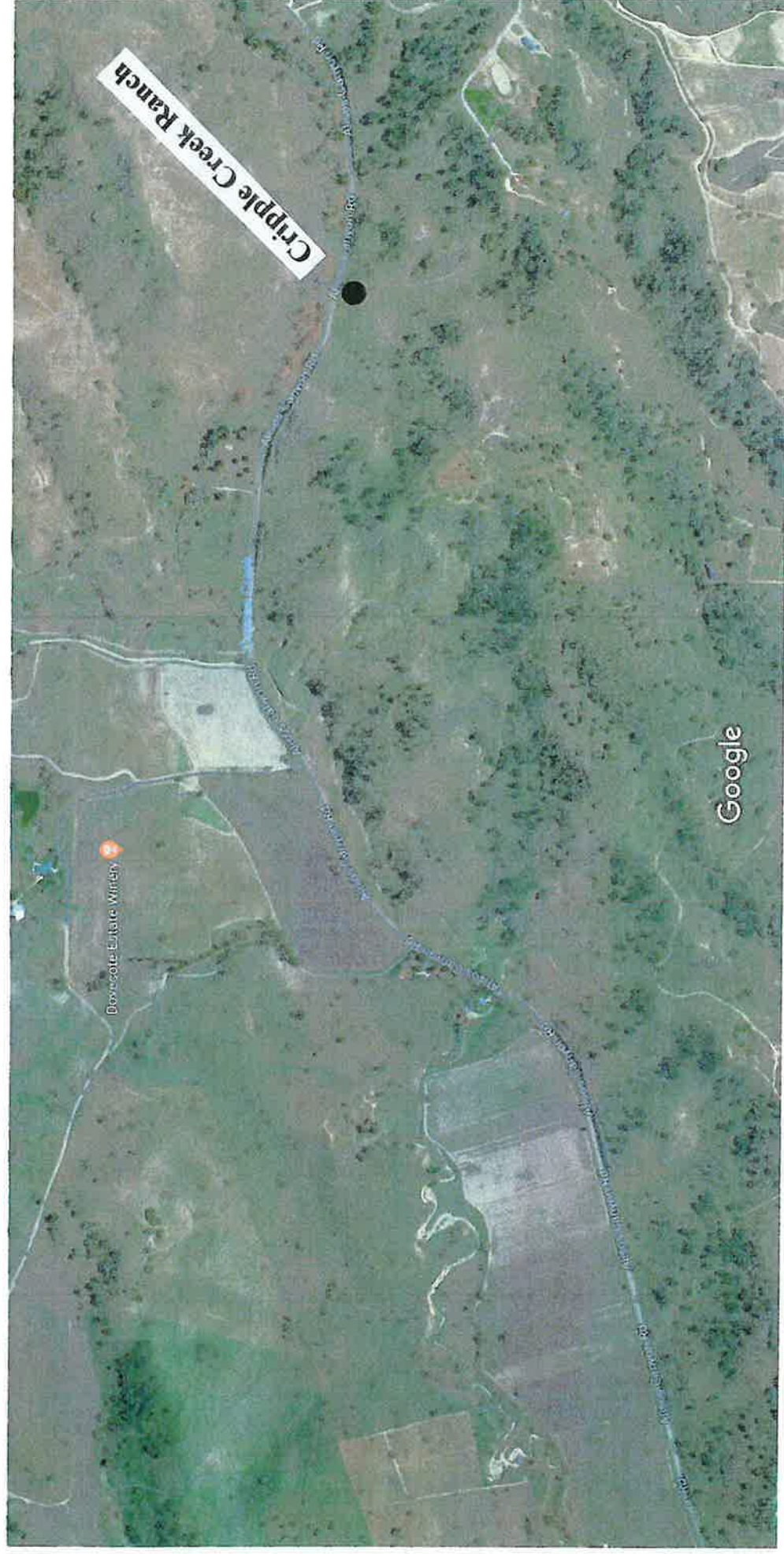
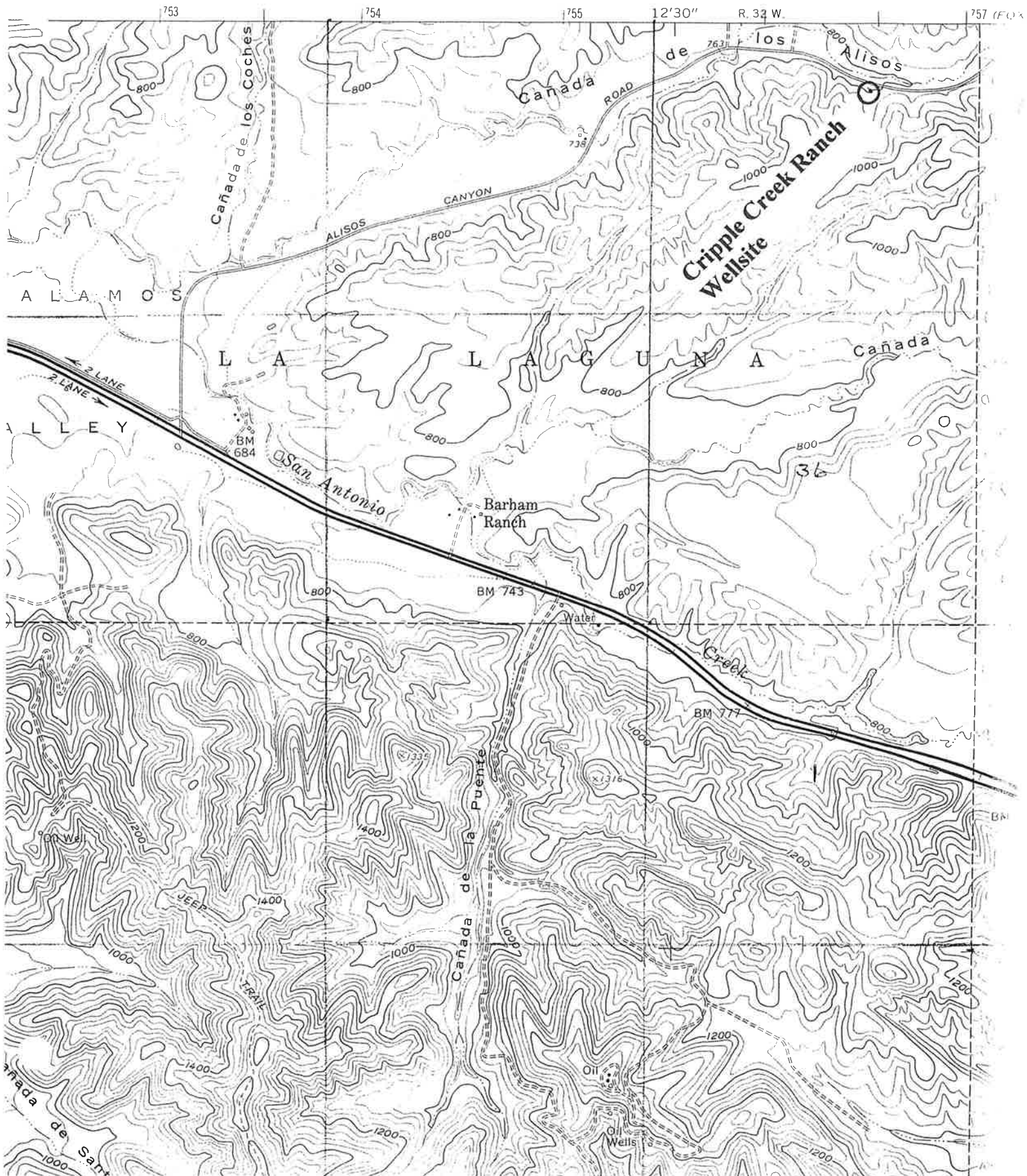


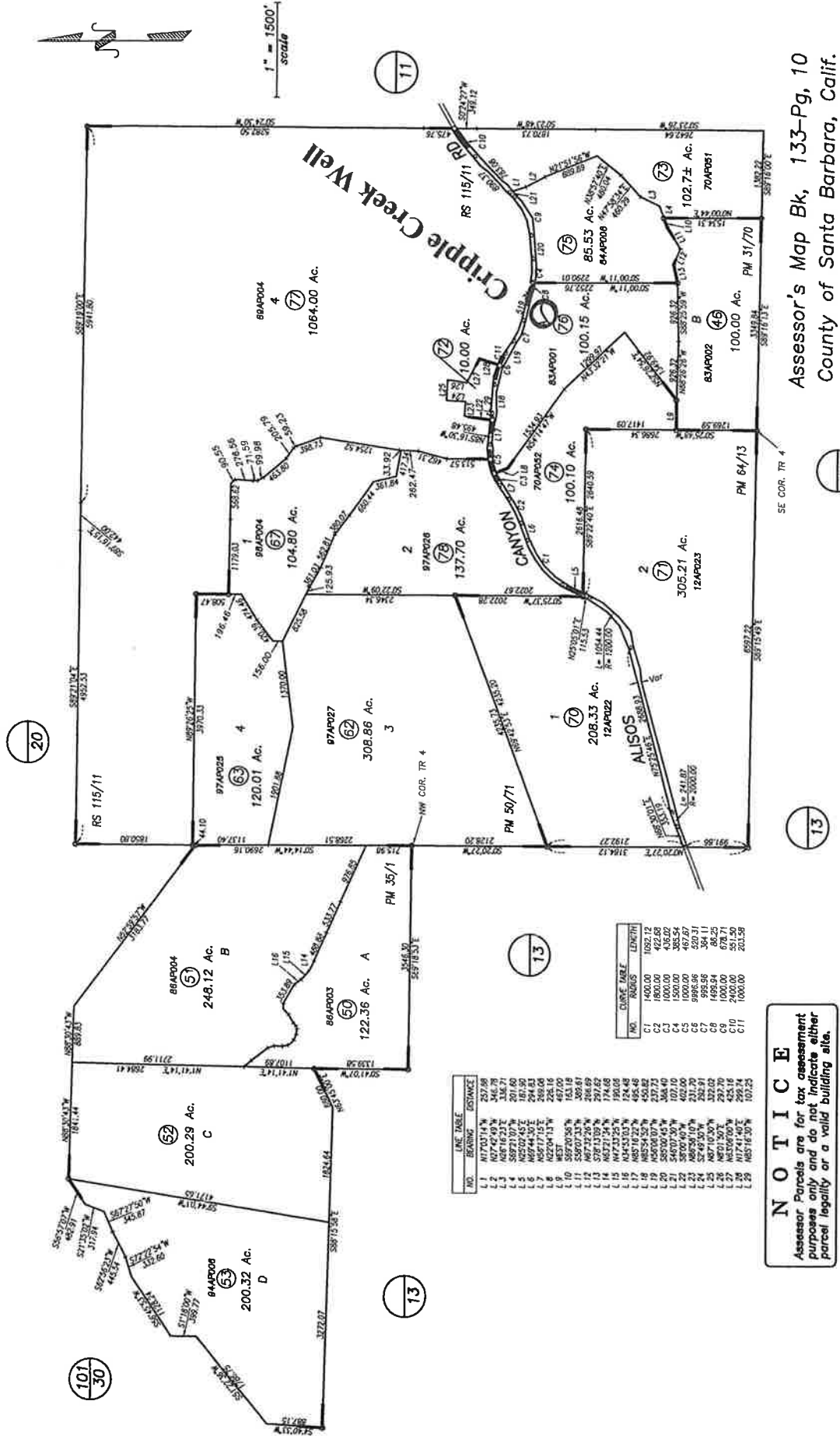
FIGURE 2
PROJECT LOCATION WELL

FIGURE 3
TOPOGRAPHY MAP



POR. RANCHO LA LAGUNA

133-10



01/02/1919 R.M. Bk. 11 , Pg. 177-180, Tract "Survey Showing Division of Wickenden Ranch & Portion of Rancho La Laguna" (LD/14) New Ag Preserve #s on 70 and 71

FIGURE 4

ASSESSOR PARCEL MAP - WELL LOCATION

NOTICE
Assessor's Parcels are for tax assessment purposes only and do not indicate either parcel legality or a valid building site.

Assessor's Map Bk, 133-Pg, 10
County of Santa Barbara, Calif.

GEOLOGY, GROUND WATER, SAN ANTONIO CREEK VALLEY, CALIF.

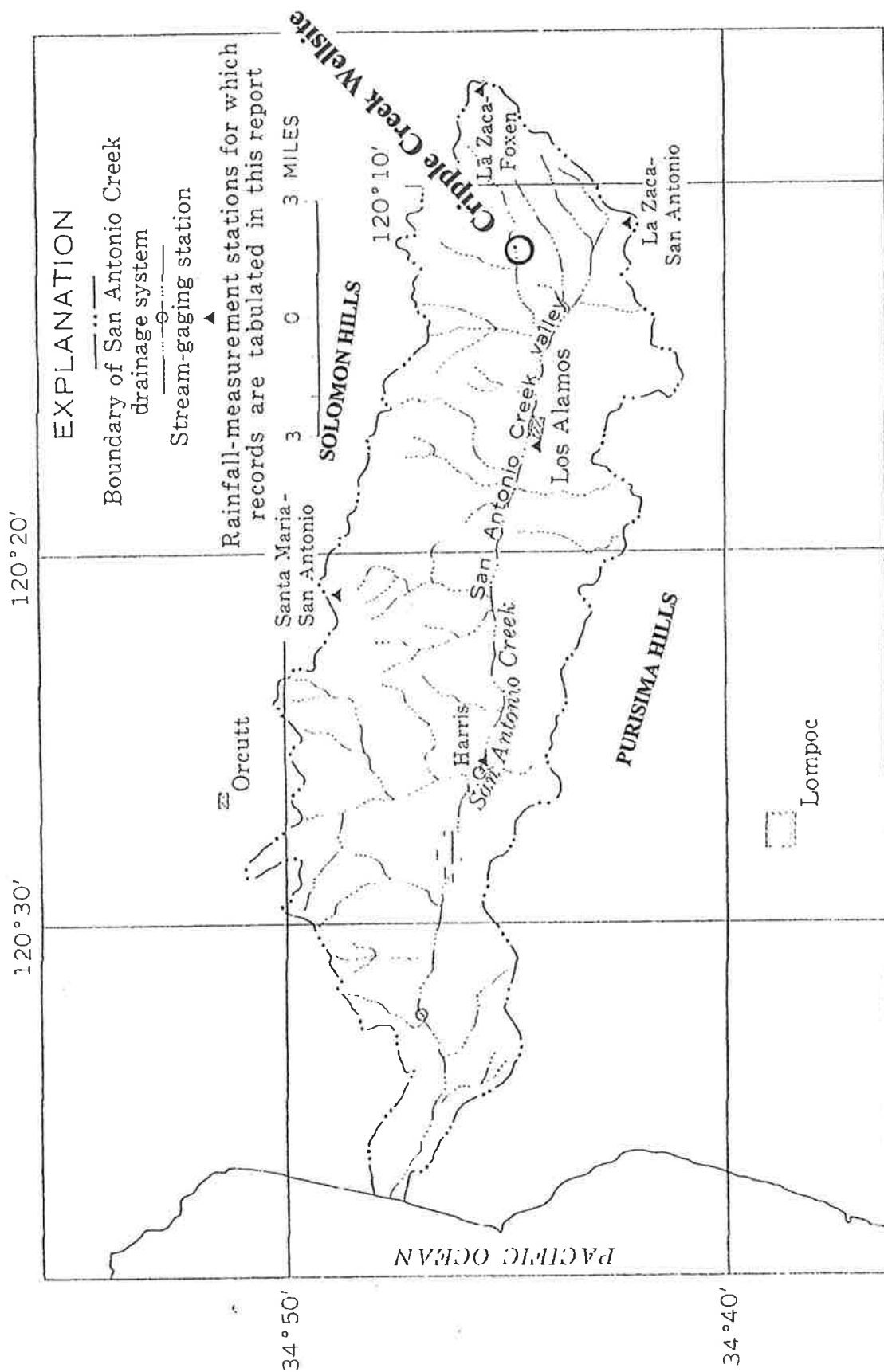


FIGURE 5 —San Antonio Creek drainage system showing location of stream-gaging stations and rainfall-measurement stations.

SAN ANTONIO CREEK GROUND WATER BASIN

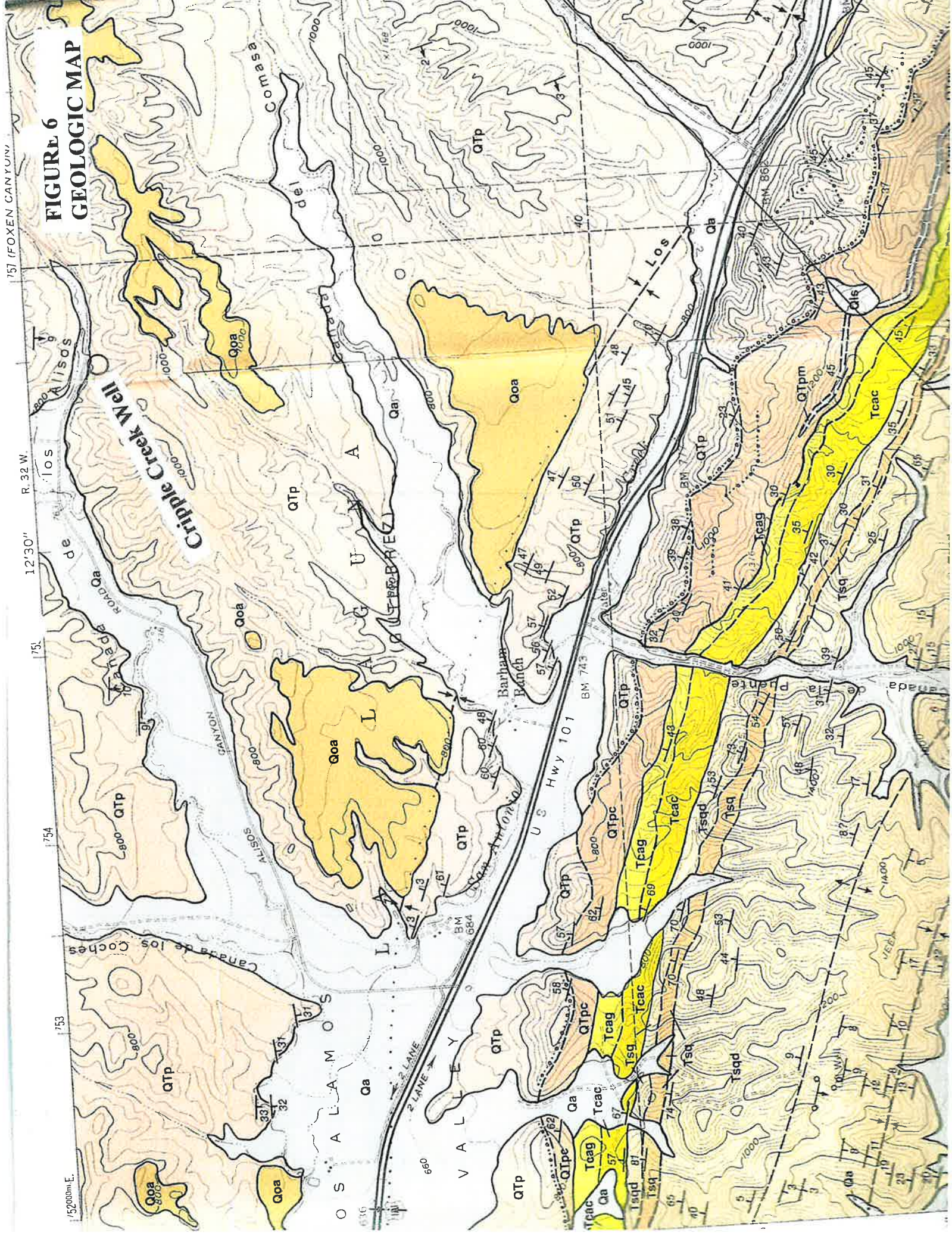


FIGURE 6
GEOLOGIC MAP

152000m E

1750000 N

152000m E

1750000 N

152000m E

1750000 N

152000m E

1750000 N

152000m E

1750000 N

152000m E

1750000 N

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LEGEND

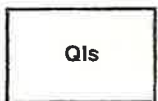
**FIGURE 7
GEOLOGIC LEGEND**

01

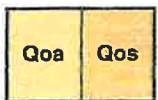


SURFICIAL SEDIMENTS

Gs valley, floodplain and stream channel alluvial deposits of gravel, sand, and clay; dissected only by active stream channels



LANDSLIDE DEBRIS

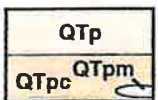


OLDER DISSECTED SURFICIAL SEDIMENTS
remnants of weakly indurated older alluvial sediments;
may be in part equivalent to Orcutt Sand of Lompoc area

Qoa older alluvial gravel, sand, and clay

Qos older alluvial sand; may be reworked from Careaga Sand

— UNCONFORMITY —



PASO ROBLES FORMATION

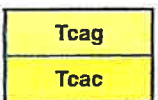
weakly consolidated alluvial sediments composed largely of Monterey Shale detritus;
deposited by streams that drained from rising San Rafael Mountains;

Pleistocene and latest Pliocene(?) age

QTP light gray conglomerate or gravel composed of white siliceous shale pebbles of Monterey Shale in sandy to clayey matrix; crudely bedded to cross-bedded; includes interbedded light gray pebbly sand and greenish gray soft claystone

QTpc greenish gray soft claystone, vaguely bedded; some layers contain small calcareous nodules; includes thin layers of sandstone and shale pebble conglomerate

QTpm fresh water limestone, as thick as 10 ft (3m), white, massive, hard to somewhat soft and marly; near base of QTpc



CAREAGA SANDSTONE

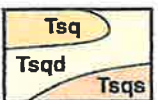
(of Woodring and Bramlette 1950)

shallow marine regressive, weakly indurated; late Pliocene age

Tcag Graciosa Member: massive gray-white to tan soft sandstone or sand, in part nonmarine and wind deposited, locally pebbly at base

Tcac Cebada Member: massive tan to yellow, soft, fine grained sandstone or sand; in Cañada de la Laguna includes thin fossiliferous calcareous layer at top

— UNCONFORMITY —



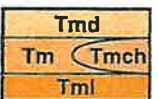
SISQUOC FORMATION

marine biogenic to clastic; late Miocene age (Late Mohnian-Delmontian Stage)

Tsq light gray, soft, slightly diatomaceous claystone

Tsqd mostly cream-white diatomaceous claystone or shale; semi-siliceous, massive to vaguely bedded, coherent, impervious, but closely fractured, crumbly where weathered; includes nearly white, somewhat punky bedded diatomite in upper part and near base

Tsqs tar-impregnated, very fine grained gray sandstone; forms thin unit at base of Tsqd north of Cañada Botella



MONTEREY SHALE

marine biogenic; late Miocene age (Mohnian Stage)

Tmd uppermost local unit: white to nearly white, soft, punky, laminated diatomite; locally includes few thin layers of siliceous shale or chert few inches or centimeters thick

Tm upper shale unit: white weathering, thin bedded, hard, platy siliceous shale and hard, brittle closely fractured porcelaneous to cherty siliceous shale; shale dark gray-brown to black, bituminous where fresh

Tmch gray laminated cherty siliceous shale

Holocene

Pleistocene

Pliocene

Miocene

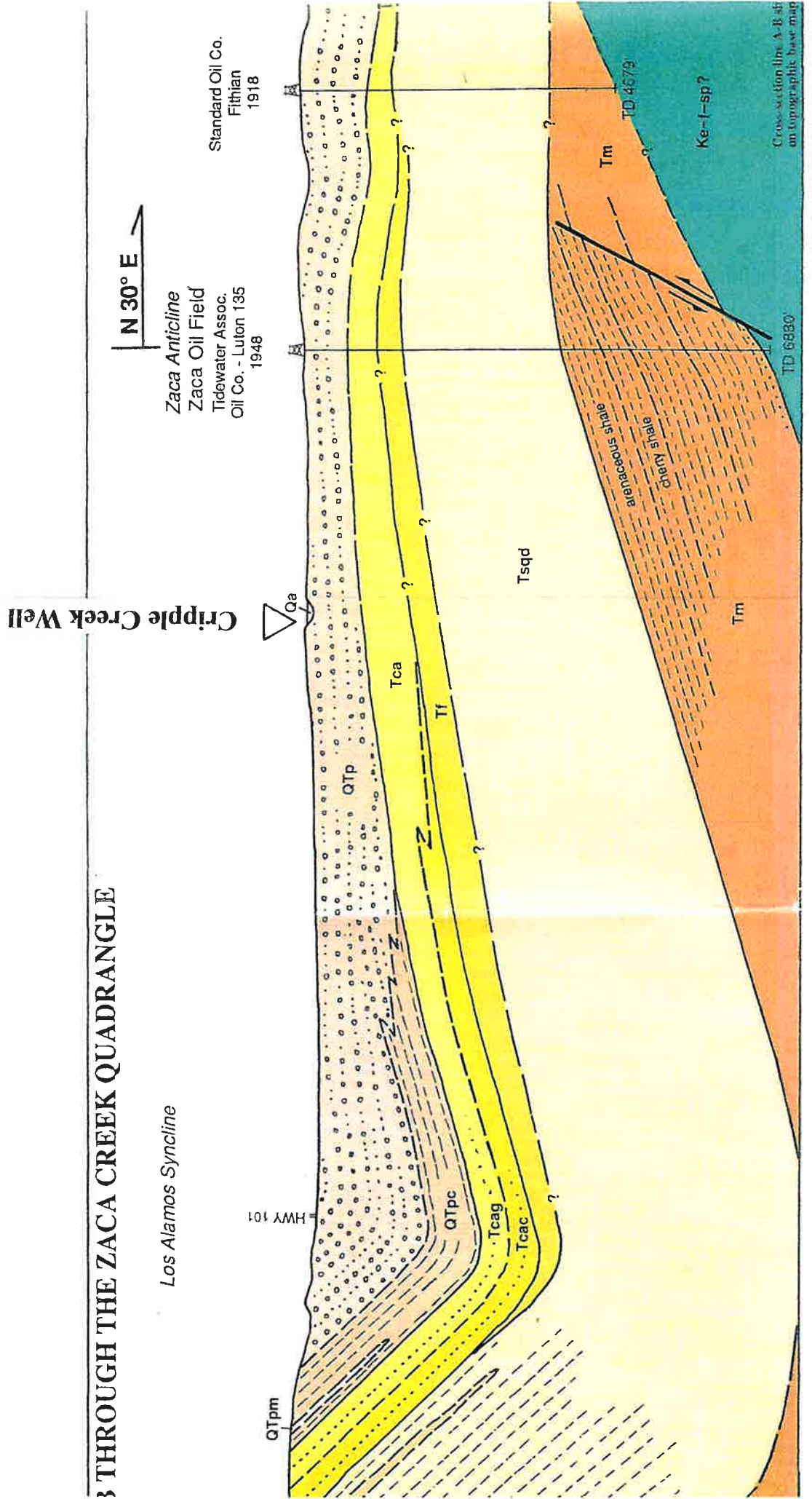


FIGURE 8
NE-SW GEOLOGIC CROSS SECTION

APPENDIX

DRILLERS REPORT

State of California
Well Completion Report
 Form DWR 188 In Review 6/1/2018
 WCR2018-004314

Owner's Well Number 2 Date Work Began _____ Date Work Ended 06/01/2018
 Local Permit Agency Santa Barbara County Environmental Health Services
 Secondary Permit Agency _____ Permit Number WP2794 Permit Date 04/12/2018

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>CRIPPLE CREEK RANCH, H.V. Wingerden</u>	Activity <u>New Well</u>
Mailing Address <u>3580 Foothill Rd</u>	Planned Use <u>Water Supply Irrigation - Agriculture</u>
City <u>Carpinteria</u> State <u>CA</u> Zip <u>93013</u>	

Well Location	
Address <u>9100 Alisos Cyn RD</u>	APN <u>133-100-076</u>
City <u>Los Alamos</u> Zip <u>93440</u> County <u>Santa Barbara</u>	Township _____
Latitude <u>34</u> <u>44</u> <u>49</u> N Longitude <u>-120</u> <u>11</u> <u>54</u> W	Range _____
Deg. Min. Sec. Deg. Min. Sec.	Section _____
Dec. Lat. <u>34.74694444</u> Dec. Long. <u>-120.19833333</u>	Baseline Meridian _____
Vertical Datum _____ Horizontal Datum <u>WGS84</u>	Ground Surface Elevation _____
Location Accuracy _____ Location Determination Method _____	Elevation Accuracy _____
	Elevation Determination Method _____

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water _____ (Feet below surface)
Drilling Method <u>Other - Mud Rotary</u> Drilling Fluid <u>Bentonite</u>	Depth to Static _____
Total Depth of Boring <u>835</u> Feet	Water Level <u>124</u> (Feet) Date Measured <u>06/01/2018</u>
Total Depth of Completed Well <u>810</u> Feet	Estimated Yield* <u>580</u> (GPM) Test Type <u>Pump</u>
	Test Length <u>3</u> (Hours) Total Drawdown <u>41</u> (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	28	Top soil. sand. gravel
28	60	Sandy tan clay
60	70	Gravel and sand
70	101	Tan clay
101	181	Sandy clay and gravel
181	190	Tan clay
190	200	Sandy clay, some gravel
200	218	Gravel and sand
218	235	Sandy clay and gravel
235	250	Coarse sand and gravel
250	370	Sandy clay and gravels
370	452	Sandy clay
452	535	Sandy clay with gravel lenses
535	539	Clay
539	695	Sandy clay with gravel lenses

695	835	Sands, some clay
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Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
	0	480	Blank	PVC	OD: 12.750 in. SDR: 17 Thickness: 0.750 in.	0.75	12.75			
1	480	800	Screen	PVC	OD: 12.750 in. SDR: 17 Thickness: 0.750 in.	0.75	12.75	Saw Cut	0.032	
1	800	810	Blank	PVC	OD: 12.750 in. SDR: 17 Thickness: 0.750 in.	0.75	12.75			

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	60	Other Fill	See description.		Concrete
60	440	Other Fill	See description.	3/8	Pea Gravel
440	810	Other Fill	See description.		#12 Sand

Other Observations: 14-Inch Protection Tube / Estimated Blowing 2000 gpm
--

Borehole Specifications		
Depth from Surface Feet to Feet	Borehole Diameter (inches)	
0	835	20.5

Certification Statement				
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief				
Name <u>SOUTHERN CALIFORNIA DRILLING</u>				
Person, Firm or Corporation				
123 INDUSTRIAL WAY		BUELLTON	CA	93427
Address		City	State	Zip
Signed	<u>electronic signature received</u>		06/01/2018	577455
	C-57 Licensed Water Well Contractor		Date Signed	C-57 License Number

DWR Use Only														
CSG #	State Well Number				Site Code				Local Well Number					
Latitude Deg/Min/Sec									Longitude Deg/Min/Sec					
TRS:														
APN:														

ELECTRIC LOG

PUMP TEST RESULTS

A & A Pump and Well Service

Page 1 of 2

(805) 735-9797 (805) 688-8805

Mobil: (805) 452-5205 Fax: (805) 686-8282

ST Lic# 577455

WELL NAME: Wingerden WELL LOCATION: 9100 Alisos Cyn Rd
 DATUM POINT (ie top of casing): _____ DEPTH OF WELL: 810' - 480 V
 DEPTH OF PUMP SETTING: 420' HP & MOTOR TYPE: 75 HP
 DEPTH OF AIRLINE: _____

DATE	TIME		FLOW RATE (gpm)	WATER LEVEL (feet)	Pal airline	REMARKS (adjust flow, odor, gas, color, sand, ect.)
June 1, 2018	8:30			124.8 (static)		184046 - ACRE FEET X .0001
	8:31		580	150		water has some color / slight smell
	8:32		580	152.1		no sand (drill mud)
	8:33			153		color in water clearing up
	8:34		580	153.4		
	8:35			154.4		184133 - color in water clearing up
	8:36		600	155.1		no sand
	8:37		580	155.6		slight color in water, but clearing
	8:38			155.8		water clear, no sand, no smell
	8:39		580	155.4		
	8:40		580	156.1		184225
	8:45		580	157.2		184315 - clear, no sand, no smell
	8:50		580	158.3		184408
	8:55		580	158.7		184495
	9:00		580	159.2		184594 - clear, no sand, no smell
	9:05		580	159.5		184678
	9:10		580	159.8		184769
	9:20		580	160.3		184951
	9:30		580	160.8		185135 - clear, no sand, no smell
	9:45		580	161.2		185412
	10:00		580	161.6		185679
	10:15		580	162		185955
	10:30		580	162.2		186226
	11:00		580	162.8		186771
	11:30		580	163.3		187323
	12:30	adjusting drive to 400 gpm @				47.5 Hz
	11:45		410	154.2		187538
	11:46		410	154.2		
	11:47		410	154.2		
	11:48			154.1		
	11:49		410	153.9		
	11:50			153.9		187608
	11:51			153.9		adjusted to 47.3 Hz
	11:52					
	11:53			153.7		

A & A Pump and Well Service

Page 2 of 2

(805) 735-9797 (805) 688-8805
Mobil: (805) 452-5205 Fax: (805) 686-8282
ST Lic# 577455

WELL NAME: Wingerden WELL LOCATION: 9100 Alisos Cyn Rd
DATUM POINT (ie top of casing): _____ DEPTH OF WELL: 810
DEPTH OF PUMP SETTING: 420 HP & MOTOR TYPE: _____
DEPTH OF AIRLINE: _____

DATE	TIME		FLOW RATE (gpm)	WATER LEVEL (feet)	Psi airline	REMARKS (adjust flow, odor, gas, color, sand, ect.)
<u>June 1 2018</u>	<u>11:54</u>			<u>153.6</u>		
	<u>11:55</u>		<u>460</u>	<u>153.6</u>		<u>187667</u>
	<u>11:56</u>			<u>153.0</u>		
	<u>11:57</u>			<u>153.6</u>		
	<u>11:58</u>			<u>153.7</u>		
	<u>11:59</u>		<u>410</u>	<u>153.6</u>		
	<u>12:00</u>		<u>410</u>	<u>153.6</u>		<u>187732</u>
	<u>12:01</u>		<u>410</u>	<u>153.6</u>		
	<u>12:02</u>			<u>153.6</u>		
	<u>12:03</u>			<u>153.6</u>		
	<u>12:04</u>			<u>153.6</u>		
	<u>12:05</u>		<u>410</u>	<u>153.5</u>		<u>187797</u>
	<u>12:10</u>		<u>410</u>	<u>153.65</u>		<u>187863</u>
	<u>12:15</u>		<u>410</u>	<u>153.5</u>		<u>187930 187929</u>
	<u>12:20</u>		<u>410</u>	<u>153.5</u>		<u>187994</u>
	<u>12:30</u>		<u>410</u>	<u>153.5</u>		<u>188126</u>
	<u>12:45</u>		<u>410</u>	<u>153.5</u>		<u>188322</u>
<u>Recovery</u>						
	<u>12:46</u>		<u>0</u>	<u>138</u>		
	<u>12:47</u>		<u>0</u>	<u>134.5</u>		
	<u>12:48</u>		<u>0</u>	<u>134.2</u>		
	<u>12:49</u>			<u>133.5</u>		
	<u>12:50</u>			<u>133</u>		
	<u>12:51</u>			<u>132.5</u>		
	<u>12:52</u>			<u>132.2</u>		
	<u>12:53</u>			<u>131.7</u>		
	<u>12:54</u>			<u>131.5</u>		
	<u>12:55</u>			<u>131.2</u>		
	<u>1:00</u>			<u>130.3</u>		
	<u>1:05</u>			<u>130</u>		
	<u>1:10</u>			<u>129.7</u>		
	<u>1:15</u>			<u>129.3</u>		

APPROVED PERMIT

WATER WELL PERMIT APPLICATION

Type of Permit (Please check the appropriate box below)

☒ Construction	\$740 (3 hrs.) * [4669]	New or Replacement well.
☐ Modification	\$740 (3 hrs.) * [4669]	Includes the deepening of a well, reperforation, sealing or replacement of well casing.
☐ Destruction	\$495 (2 hrs.) * [4668]	Abandonment: The complete filling of a well.

FOR OFFICE USE ONLY

Rec'd Date: 4-12-18
Rec'd By: Melanie
WP # 000 2794
District # _____

* An hourly fee of \$136 will be added for those projects that require staff time in excess of that noted above. Final project approval will not be issued until all fees are paid.

Required Attachments: Plot plan indicating the location of the well with respect to the following items:

- | | |
|--|--|
| ☐ Property lines. | ☐ Animal or fowl enclosure, pens, paddocks, stockyards within a 100 foot radius of proposed well site |
| ☐ Drainage pattern of the property. | ☐ Sewage disposal systems or works carrying or containing sewage or industrial wastes within a 200 foot radius of the proposed well. |
| ☐ Access roads and easements (water, sewer, utility, roadway). | ☐ All perennial, seasonal, natural, or artificial water bodies or watercourses, including location of 100 year floodplain, if applicable. |
| ☐ Existing and/or proposed structures. | ☐ Also Required: the Supplemental Form on page 3, completed in full. |
| ☐ Existing wells within a 100 foot radius of the proposed well. | |

OWNER Info:

Well Owner Name (Required): Cripple Creek Ranch LLC. HENRI VAN WINGERDEN Primary Phone (805) 866-0166
Owner Mailing Address: 3580 FOOTHILL RD CARPINTERIA CA 93013
Street Number and Name City State/Zip Code

Complete this section if the person coordinating the project is other than the Well Owner (e.g., driller, contractor).

Project Coordinator/Certified Professional Name: CHARLES KATHERMAN
Mailing Address: P.O. Box 1812 SANTA MARIA CA 93456
Street Number and Name City State/Zip Code
Primary Phone: () Email: _____

WELL Location Info:

Well Location Address: 9100 (?) ALISAS CANYON RD. LOS ALAMOS CA 93440
Street Number and Name City State/Zip Code

Cross Street (or other information defining the Well location) if applicable: _____

Assessor's Parcel Number (APN): 133 100 076

Longitude: NA Latitude: NA Elevation: _____

A. Is parcel located within the service area of a public water system? ☒ No ☐ Yes (Identify): _____

A-1. If you answered Yes to question A.: Are you connected to the Public Water System (i.e., do you have a meter?) ☐ No ☐ Yes

A-2. If you answered No to the question A-1.: Is public water service available? ☐ No ☐ Yes

Proposed Depth <u>800</u> ft.	Casing Information Type: ☐ Steel ☒ PVC ☐ Other Wall / Gauge <u>0.5</u> in. Diameter <u>7 1/2</u> in. Annular Seal Depth <u>50</u> ft. Additional Work Description: _____ Note: A minimum 50 ft. annular seal is required for all wells.
Well Bore Diam. <u>20</u> in.	
Sealing Material (Check) ☐ Neat Cement ☐ Clay ☒ Cement Grout ☐ Concrete	

LEGAL DECLARATION

LICENSED CONTRACTOR DECLARATION

I hereby affirm that I am licensed under the provisions of Chapter 9 (commencing with Sec. 7000), Division 3 of the Business and Professions Code (B&PC) as a well drilling contractor (C-57 license) and such license is in full force and effect.

RICHARD ALEXANDER

Print Name of Driller

ON FILE

Signature of Driller

4/5/18

Date

Lic. No.: 577455

Primary Telephone 805-6888805

Other Phone: 805-452-5205

Business Name: A#A PUMP & WELL SVC. Address 123 INDUSTRIAL WAY, BUELLTON

(Complete A or B)

A. WORKERS' COMPENSATION DECLARATION

I hereby affirm that (check the applicable box):

- ☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
- ☐ I have and will maintain workers' compensation insurance, as provided for by Section 3700 of the Labor Code, for the performance of work for which this permit is issued. My insurance carrier and policy number are:

Carrier _____ Policy No. _____

Applicant Signature _____ Date _____

B. CERTIFICATION OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

I certify that in the performance of work for which this permit is issued, I shall not employ any person in a manner so as to become subject to the Workers' Compensation Laws of California.

Applicant Signature CE Katherman Date 4/5/18

Notice to Applicant: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

When signed by the Environmental Health Specialist, this application shall be deemed a permit only for the work described and is not a "permit for development" as that term is used in the California Subdivision Map Act. Please note additional permits (e.g., electrical installation, waste discharge requirements, land use clearance, grading) may also be required from other agencies. THIS PERMIT SHALL EXPIRE upon completion of the task authorized or one year from date of issuance, whichever occurs first. No changes from the approved plan are permitted without prior written approval by Environmental Health Services. Final clearance will not be issued until all fees are paid and a copy of the driller's log is submitted to Environmental Health Services.

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish Environmental Health Services a copy of a completed well log upon completion of well construction.

I certify that I have read this application and declare under penalty of perjury that the information contained herein is true, correct and complete. I hereby authorize representatives of Environmental Health Services to enter the premises for the purpose of inspecting the site and work described herein for compliance with county requirements.

REQUIRED INSPECTIONS / FINAL CLEARANCE: After permit approval, and prior to covering any components, an inspection must be scheduled directly with the approving Environmental Health Specialist at least two (2) business days in advance for:

- ✓ The sealing of the annular space on a well;
- ✓ The destruction of wells;
- ✓ Any operation stipulated on the permit to address special or unusual conditions.
- ✓ Receipt of driller's well log.

Signed CHARLES KATHERMAN Charles E Katherman 4/5/18
Applicant (Print Name) Applicant's Signature Date

Signed Yvonne Zandica 4/17/2018
Environmental Health Specialist Date

APPLICATION DISPOSITION: ☒ Approved ☐ Denied

FOR DEPARTMENT USE ONLY

Fixed Fee Rec'd by: STEWART Date: 4/12/18 Amt \$ 740 Credit Card Trans No: _____ (last 4 digits)

Check No. 2729 Receipt No. 21095162

Permit Conditions: Please contact EHS 48hrs prior to sealing

Final Construction Approved by: _____ Date: _____

Final Clearance by: _____ Date: _____

☐ Copy Required at Assessor's Office

☐ Copy Required at Water District Office



COUNTY OF SANTA BARBARA
Environmental Health Services

X2109562

Department

Date

4/12/18

Received from

In Payment of

Katherman Exploration Corp Van Wingerden
Well Permit to Construct 9100 Aliso Canyon

Seven Hundred Forty only and 74 Dollars \$ 74.00

Received original of the above numbered receipt

CREDIT CARD	
CASH	
CHECK	

#2729

JoAnn

[Signature]

SIGNATURE OF PAYOR

AUTHORIZED SIGNATURE

**SANITARY SEAL
WITNESSING**

May 29, 2018

Santa Barbara County EHS
2125 Centerpointe Pkwy, Rm 333
Santa Maria, CA 93455

Re: Sanitary Seal, Cripple Creek Water Well #1
Permit #2794, APN 133-100-076

To Whom It May Concern:

Please be advised that on May 24, 2018, Charles Katherman, CA RG #4069, witnessed the conclusion of the placement of the sanitary cement seal for the subject water well being drilled for Cripple Creek Ranch on its parcel (APN 101-300-006) off Alsos Canyon Rd. in the Los Alamos Area. This seal was placed at a depth of 60 feet. The borehole was 20.5 inches in diameter with PVC casing with an *outside diameter of 12.75 inches*. *Approximately 4 cubic yards* of cement was poured to complete the sanitary seal with the top of the seal at grade.

A hypothetical calculation of the annular space between the borehole and the casing results in an estimated 1.41 cubic feet of cement per linear foot of hole. This space would then require approximately 87 cubic feet for a 60 foot seal or 3.2 cubic yards of material.

If there are any questions and/or comments concerning this seal, please feel free to contact me at the number or email below.

Respectfully submitted,

Charles E. Katherman
lkatherman@aol.com/805-5985661

CA Registered Geologist #4069

Cc: Rich Alexander, A&A Pump & Well