



ENVIRONMENTAL ENGINEERING, INC 6620 Owens Drive, Suite A • Pleasanton, CA 94588-3334 TEL (925)734-6400 • FAX(925)734-6401

August 8, 2006

Mr. Steven Plunkett Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject: **#RO0000346** Site Address: 3519 Castro Valley Boulevard, Castro Valley, CA Castro Valley Gasoline Service Station

Dear Mr. Plunkett:

SOMA's "Sensitive Receptor Survey Report" for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. If you have any questions or comments, please call me at (925) 734-6400.

Sincerely,

Mansour Sepehr, Ph.D., P.E. Principal Hydrogeologist



Enclosure

cc: Mr. Azim Shakoori w/enclosure Ms. Lynelle Onishi, URS Corporation



ENVIRONMENTAL ENGINEERING, INC 6620 Owens Drive, Suite A • Pleasanton, CA 94588-3334 TEL (925)734-6400 • FAX(925)734-6401

SENSITIVE RECEPTOR SURVEY REPORT

CHEVRON GASOLINE SERVICE STATION 3519 Castro Valley Boulevard Castro Valley, California

August 8, 2006

Project 2762

Prepared for

Mr. Mirazim Shakoori 3519 Castro Valley Boulevard Castro Valley, California

Prepared by

SOMA Environmental Engineering, Inc. 6620 Owens Drive, Suite A Pleasanton, California

CERTIFICATION

This report has been prepared by SOMA Environmental Engineering, Inc., (SOMA) on behalf of Mr. Mirazim Shakoori, the property owner of 3519 Castro Valley Boulevard, Castro Valley, California. This report includes details of the sensitive receptor survey, as requested by the Alameda County Health Care Services in their letter dated June 22, 2006.

Mansour Sepehr, Ph.D., P.E. Principal Hydrogeologist



SOMA Environmental Engineering, Inc.

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1.0 INTRODUCTION

This report has been prepared by SOMA Environmental Engineering, Inc., (SOMA) on behalf of Mr. Mirazim Shakoori, the property owner of 3519 Castro Valley Boulevard, Castro Valley, California (the "Site"), as shown in Figure 1. Appendix A contains parcel maps that illustrate the official parcel subdivision and legal property boundaries.

This report has been prepared to comply with the Alameda County Health Care Services' (ACHCS's) directive as described in their letter dated June 22, 2006.

2.0 BACKGROUND

In 1984, three single-walled fiberglass underground storage tanks (USTs) with capacities of 6,000 gallons, 8,000 gallons, and 10,000 gallons were installed in the southeastern portion of the Site. A former dispenser island reportedly existed on the west side of the Site; however, there was no available information on the date of the dispenser removal.

In 1988, a 1,000-gallon double-walled fiberglass waste oil tank (WOT) was installed to replace the previous 380-gallon WOT. In September 1988, Kaprealian Engineering, Inc. (KEI) removed the original 380-gallon WOT and observed holes in this UST. Due to holes observed in the former WOT, confirmation soil samples were collected from the bottom of the excavation. The following analytical soil results were observed: benzene and toluene were detected at 6.8 ug/Kg and 9.5 ug/Kg, respectively. Total petroleum hydrocarbons (TPH) and total oil and grease (TOG) constituents were not detected.

In September and October 1992, Environmental Science & Engineering, Inc. (ESE) drilled five soil boreholes and converted them into monitoring wells (ESE-1

through ESE-5). Soil and groundwater samples were collected during the well installation. Figure 2 shows the locations of the wells.

In July 1995, three additional monitoring wells were installed (two on-site wells, MW-6 and MW-8, and one off-site well, MW-7). In April 1996, well MW-8, which was located on the western margin of the Site, was decommissioned to accommodate the road-widening project along Redwood Boulevard. Figure 2 shows the locations of these wells.

On August 20, 2003, prior to the UST removal activities, SOMA oversaw Vironex drill two boreholes. The two boreholes were drilled in order to characterize the soil for landfill acceptance criteria. The borehole locations are shown in Figure 2. In September 2003, three single-walled fiberglass USTs, with capacities of 6,000 gallons, 8,000 gallons, and 10,000 gallons were removed and replaced with new double-walled fuel tanks. The new USTs consisted of double-walled fiberglass tanks with capacities of 12,000 gallons and 20,000 gallons. In addition to the removal and replacement of the USTs, the dispensers, product lines, and vent lines were also removed and replaced. During the Third Quarter 2003, two monitoring wells, ESE-3 and ESE-4, were decommissioned due to construction activities.

In December 2003, SOMA oversaw the drilling of the off-site temporary well boreholes. The boreholes were drilled to determine the horizontal extent of the petroleum hydrocarbon contamination in the off-site areas. The locations of the temporary boreholes are displayed in Figure 2.

On June 10, 2004, SOMA installed on and off-site monitoring wells at the Site. SOMA-1 was installed in the southeastern section of the Site. SOMA-2 to SOMA-4 were installed south and southeast of the Site. Figure 2 shows the locations of these monitoring wells.

SOMA Environmental Engineering, Inc.

2.1 Regional Geology

The U.S. Geologic Survey (USGS) mapped the Site as weakly consolidated, slightly weathered, poorly sorted, irregular interbedded clay, silt, sand, and gravel. Based on the temporary well and monitoring well borehole logs, the underlying sediments generally consists of soft to very stiff silty clay and clayey silt with intervening layers of medium dense silty sand and sandy silt.

In developed urban areas, such as the Bay Area, earthwork construction often involves the emplacement of artificial fill derived from nearby cuts or quarries. Artificial fill is emplaced over native earth materials to provide level building pads and base rock for roadways.

3.0 ZONING

The subject site, according the General Plan, is zoned "general commercial," and is located in an area consisting primarily of commercial and some residential properties. Figure 3 illustrates the zoning subdivision of the Site and its general vicinity.

4.0 SENSITIVE RESEPTOR SURVEY RESULTS

4.1 Department of Water Resources Data

On July 14, 2006, SOMA's representative conducted a well search at the Department of Water Resources District Office. The purpose of this survey was to identify groundwater wells within a ¹/₂-mile radius of the Site that might be impacted by the Site's contaminant plumes.

After reviewing the available records, fourteen properties were identified as having well(s) on their premises. Of the fourteen properties, five were reported to have irrigation wells. The remaining nine properties (locations) were reported to have monitoring or decommissioned wells.

All five irrigation wells were located to the northeast (up-gradient) from the Site. Figure 4 illustrates the locations of these sensitive receptors. Table 1 summarizes the results of the above well survey. Appendix B includes the Drillers' Logs obtained from the Department of Water Resources.

4.2 Alameda County Public Works Agency Data

On July 12, 2006, SOMA's representative submitted a written request in the form of a well completion report release agreement to the County of Alameda Public Works Agency for a well search in the vicinity of the Site. The purpose of this search was to identify any additional groundwater wells within a ½-mile radius of the Site that might be affected by the Site's contaminant plumes. "Raw" results of this inquiry are included in Appendix B. During this sensitive receptor study duplicate wells, which were already identified in the search of the Department of Water Resources records, were disregarded; as such, only the Alameda County well search results were summarized.

After reviewing the available records, eleven properties were identified as having well(s) on their premises. Of the eleven properties, two were reported to have an irrigation well; the remaining nine were reported to have decommissioned well(s), monitoring wells, or soil borings on their premises. From the two identified irrigation wells, one (No 11) is located up-gradient, and the other (No 4) is located approximately 2,000 feet down-gradient from the Site. According to the latest quarterly monitoring groundwater event, the groundwater flow direction is south to southeasterly. Figure 5 illustrates the locations of these sensitive receptors. Table 2 summarizes the results of this survey and shows additional information, like total depth and diameter, for each potential sensitive receptor.

4.3 Evaluation of the Sensitive Groups and Environments

The Alameda County Planning Department was contacted in an attempt to locate any sensitive receptors that could potentially be influenced by the Site's contaminant plume. Based on the information obtained from the Castro Valley General Plan, Castro Valley Creek, a tributary to the San Lorenzo Creek, is located approximately 200 feet to the southeast of the Site. Figure 6 shows the location of the creek in the relationship to the Site.

The section of the creek, adjacent to the Site and running from Castro Valley Boulevard north to Pine Street, was identified by the Alameda County Public Works Department as an improved channel with "Oak Riparian Woodland/ Wildlife Corridor." Appendix D shows the pictures and construction diagrams for the portion of the Castro Valley Creek adjacent to Castro Valley Boulevard. As seen in the pictures and contraction details, the creek's base flow channel is unlined and is approximately 15 to 20 feet wide. No special status species were reported to use the Castro Valley Creek or its vicinity as their habitat.

The public records also indicated the presence of seven potential sensitive receptors (facilities) within a ¹/₂-mile radius of the Site. These receptors consisted of educational facilities, like learning centers and schools. Figure 6 illustrates the locations and lists the names of the sensitive receptors. As illustrated in this figure, most of these receptors are located up or cross- gradient from the Site.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the data from this survey, there is no immediate threat from the Site's groundwater contaminants to the individuals living or working in the vicinity of this site.

Based on SOMA's previous investigations and groundwater monitoring events, the plume exists along the south and southeastern half of the Site. It appears that the groundwater contaminants have migrated at least 200 feet off-site, in a southeasterly direction.

Figures 7 and 8 show the current Methyl tertiary Butyl Ether (MtBE) and gasoline plumes in the groundwater (as of April 27, 2006). Figure 9 shows the contaminant distribution of MtBE and gasoline during the most recent groundwater monitoring event, with respect to distance. From these figures it could be seen that, although the off-site wells show detectable levels of the above constituents, the concentration levels are relatively low and decrease notably with distance. Therefore, the down-gradient irrigation well (No *4*), which is located over 2,000 feet away, will not likely be impacted by the contaminant plume in the immediate future.

Although Castro Valley Creek is a potentially sensitive environment, due to the fact that no special status species were reported to use this creek as their habitat and the creek's relative non-proximity to the Site, the likelihood of a significant impact from the Site's groundwater's contaminants is minimal.

Based on our findings, it was concluded that no irrigation or domestic wells, and no sensitive groups or environments, evaluated during this sensitive receptor survey and located within ½-mile radius have the potential to be impacted by the Site's contaminants at this time.

SOMA recommends the continued monitoring of the off-site wells to insure that no contamination reaches the domestic well.

SOMA Environmental Engineering, Inc.

6.0 **REFERENCES**

Alameda County Health Care Services, June 22, 2006. A Letter in Connection with Request for Conducting Sensitive Receptor Survey at 3519 Castro Valley Blvd., Castro Valley, CA."

Helley, E. J. and LaJoie, K. R., 1979. "Flatland Deposits of the San Francisco Bay Region, California". Geologic Survey Professional Paper 943.

SOMA Environmental Engineering, Inc. May 15, 2006. "Second Quarter 2006 Groundwater Monitoring Report Castro Valley Gasoline Service Station."

San Francisco Regional Water Quality Control Board, July 14, 2006. File review.

County of Alameda Public Works Agency, July 12, 2006. File review.

County of Alameda Planning Department. July 30, 2006. "Castro Valley General Plan."

Alameda County Assessor–Public Records. July 30, 2006. Parcel Maps

Figures



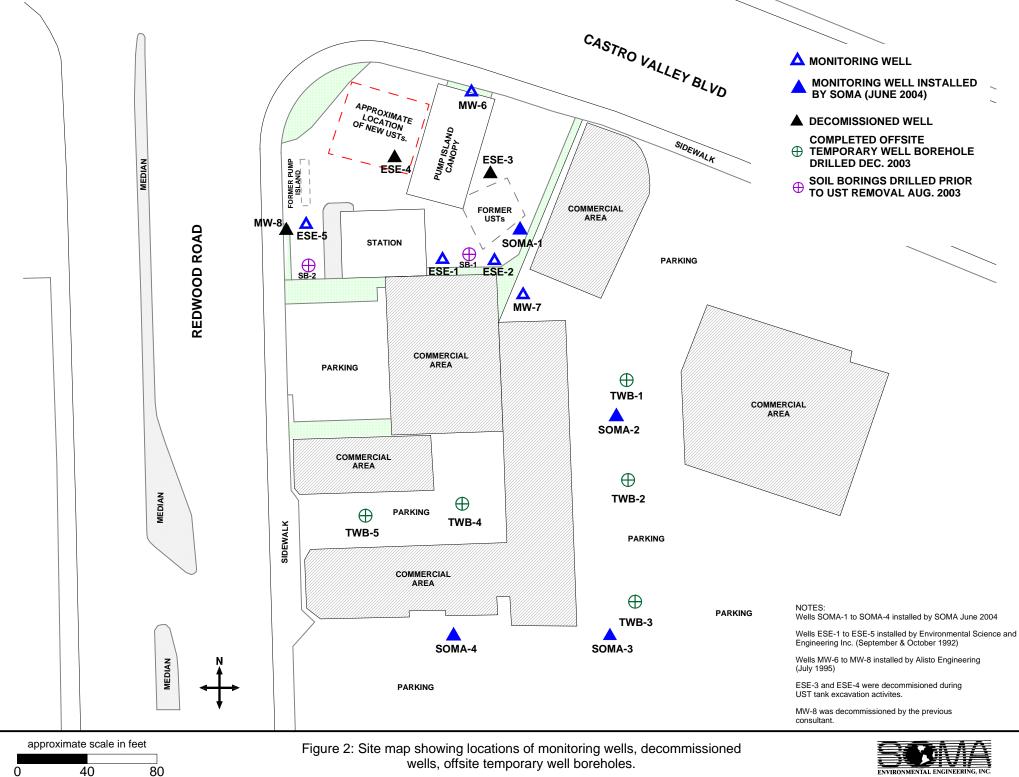


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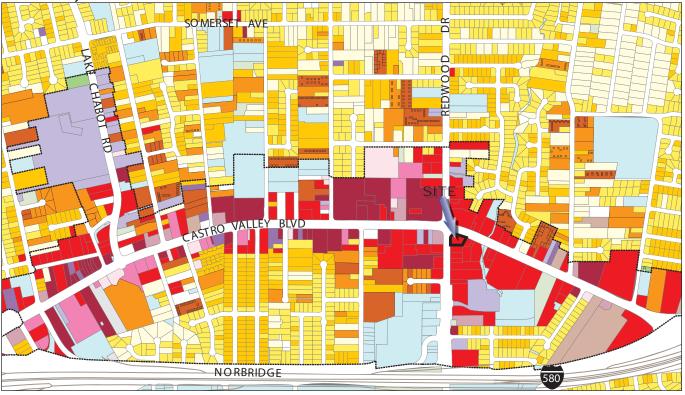
approximate scale in feet 60 120

Figure 1: Site vicinity map.





Castro Valley Central District



Residential 0-4 du/ac Large Lot Single Family

Residential 5-8 du/ac Single Family

Residential 9-17 du/ac Town Houses & Low Density Apartments

Residential 18-30 du/ac Medium Density Apartments

Residential over 30 du/ac High Density Apartments

Mobile Home Parks

General Commercial Personal Services, Financial & Real Estate, etc Retail Commercial Restaurants & Entertainment Automotive Service, Sales & Parts Mixed Use Office

Medical Dental

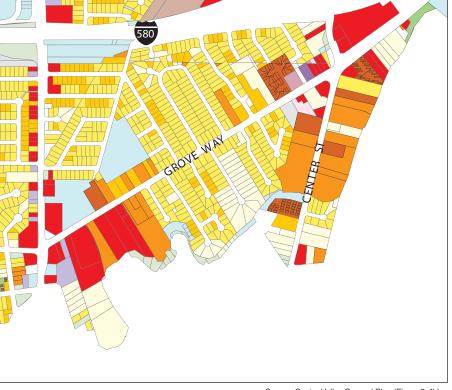
Light Industrial & Storage

Public/Institutional

Park/Open Space

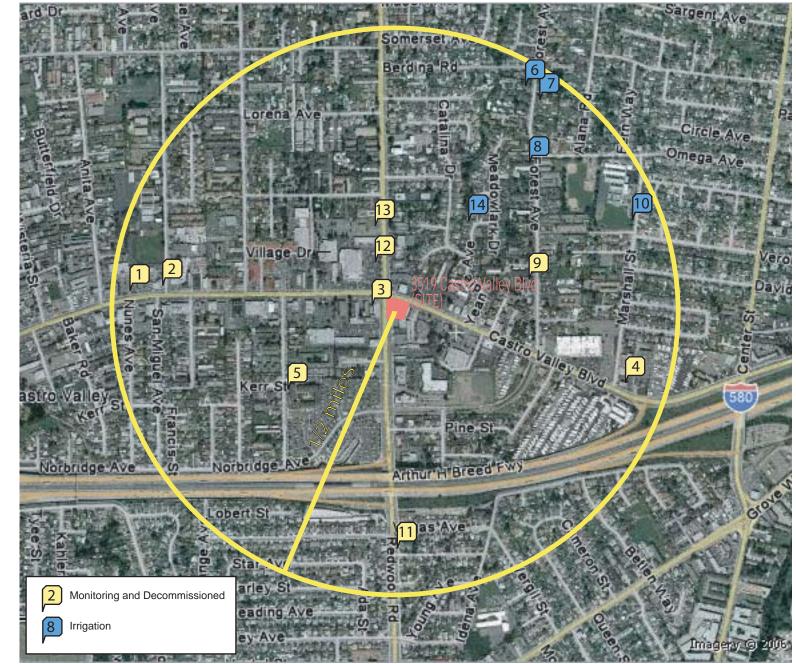
Other/Unclassified

Vacant ----- Castro Valley General Plan Area Grove Way/Center St/Redwood Dr/South of 580



Source: Castro Valley General Plan (Figure 2-4b) Alameda County Community Development Agency, 2004; and Dyett & Bhatia fieldwork.





Aerial Source: Imagery (c) 2006 Aerials Express (Yahoo Inc.)

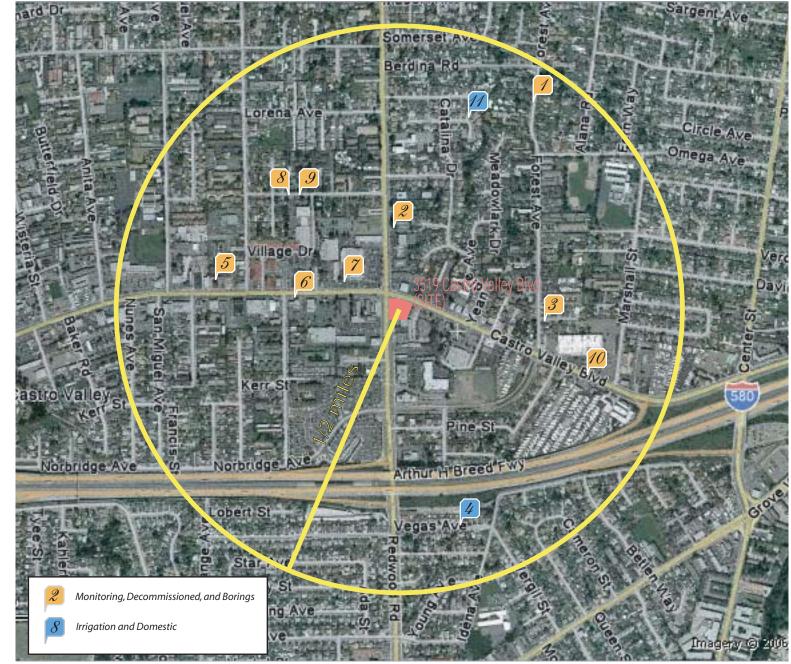
approx	imate scale
0	.25 mile

0.5 mile

Figure 4: Sensitive Receptor Survey Map Based on the Data Obtained from the Department of Water Resources



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Aerial Source: Imagery (c) 2006 Aerials Express (Yahoo Inc

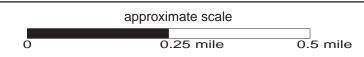
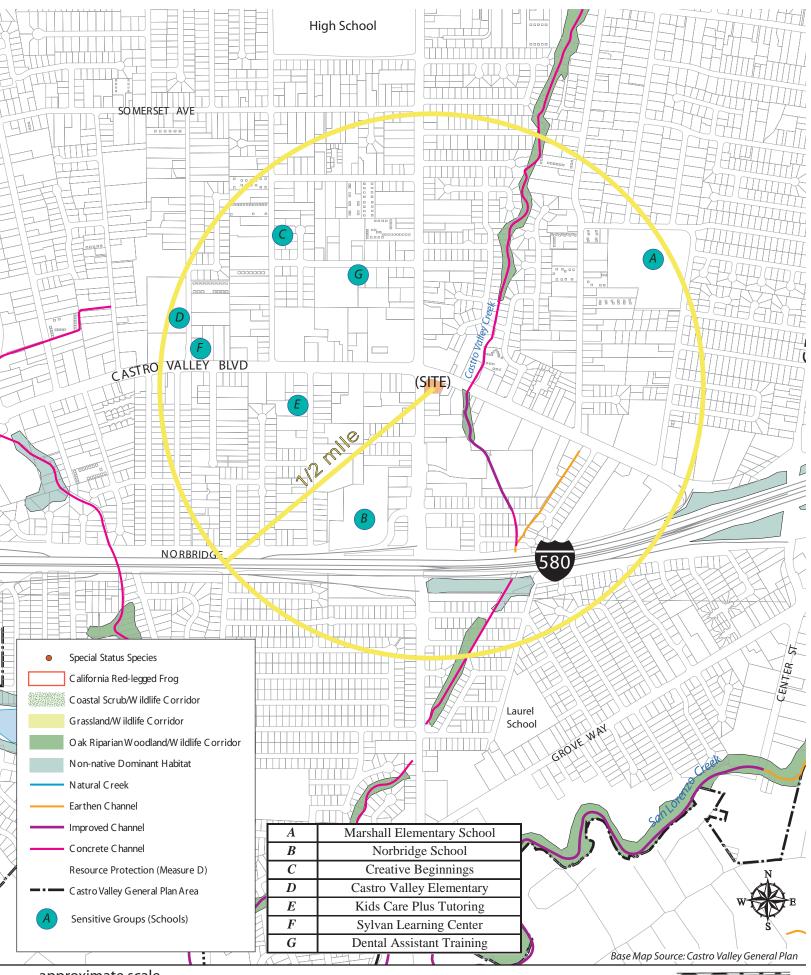


Figure 5: Sensitive Receptor Survey Map Based on the Data Obtained from the Alameda County Public Works Agency



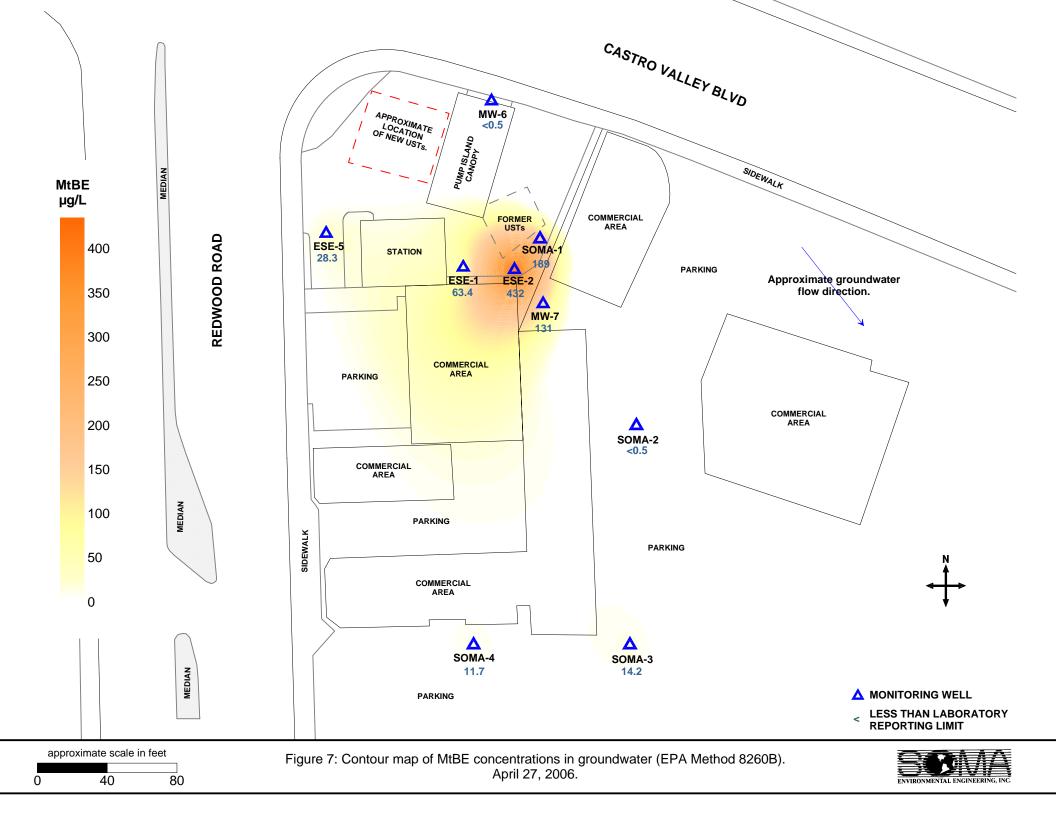


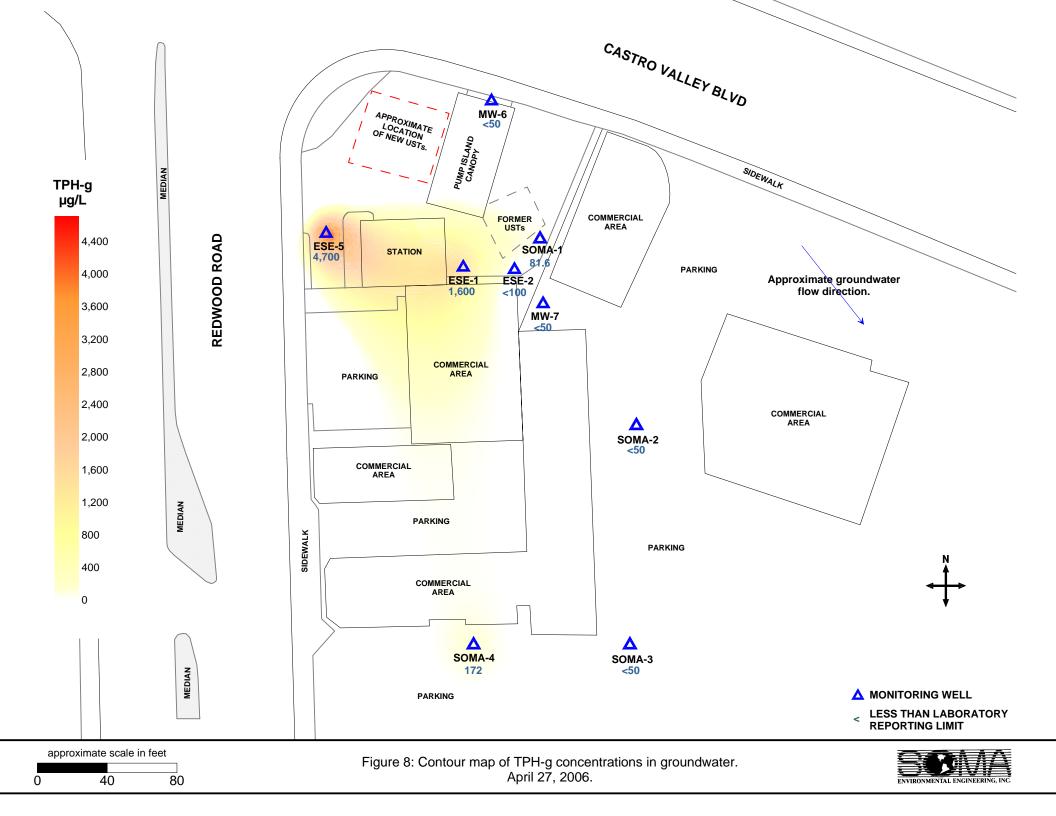
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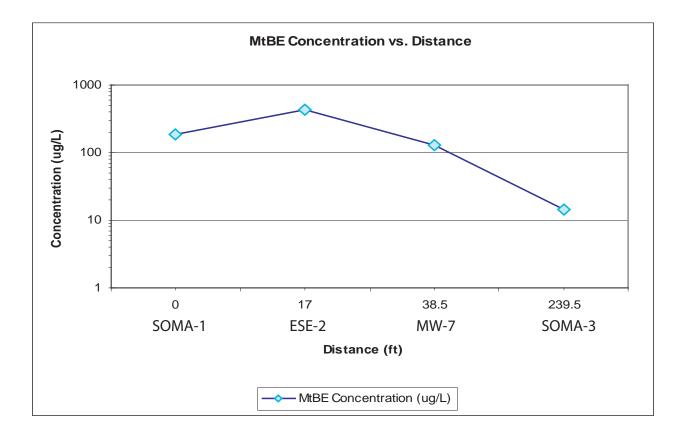
0.25 miles

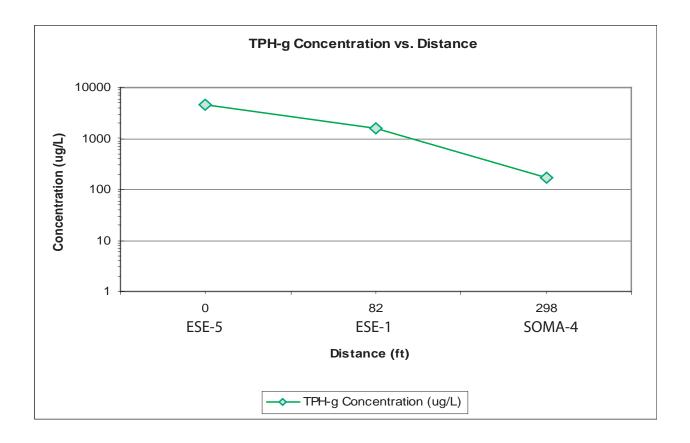
Figure 6: Receptor Survey of Sensitive Groups and Environmentls

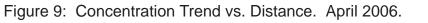














Tables

Table 1

Sensitive Receptor Survey Summary (Department of Water Resources) 3519 Castro Valley Blvd, Castro Valley

<u>Map ID</u>		Address	<u>Use</u>
1	2973	Castro Valley BLVD, Castro Valley	Unknown
2	3098	Castro Valley BLVD, Castro Valley	Monitoring
3	3495	Castro Valley blvd, Castro Valley	Monitoring
4	3940	Castro Valley blvd, Castro Valley	Monitoring
5	21000	Wilbeam Ave, Castro Valley	Monitoring
6	19861	Forest Ave, Castro Valley	Irrigation
7	19910	Forest Ave, Castro Valley	Irrigation
8	20115	Forest Ave, Castro Valley	Irrigation
9	20551	Forest Ave, Castro Valley	Unknown
10	20287	MARSHALL ST, Castro Valley	Irrigation
11		Redwood Rd and Watson St	Destruction
12	20629	Redwood Rd, Castro Valley	Monitoring
13	20405	Redwood Road, Castro Valley	Monitoring
14	20283	Yeandle Ave, Castro Valley,	Irrigation
		Wells Outside the 1/2 Mile Radius	
15	22447	Charlene Way, Castro Valley	Irrigation
16	1792	Crescent Avenue, Castro Valley	Monitoring
17	2146	Grove Way, Castro Valley	Extraction
18	2416	Grove Way, Castro Valley	Domestic
19	22315	Redwood Rd, Castro Valley	Monitoring
20		GROVE WAY AT REDWOOD RD, Castro Valley	Monitoring
21	4589	JAMES AVE, Castro Valley	Irrigation
22	18878	Redwood Rd, Castro Valley	Test well

 Table 2

 Sensitive Receptor Survey Summary (Alameda County Public Works Agency)

 3519 Castro Valley Blvd, Castro Valley

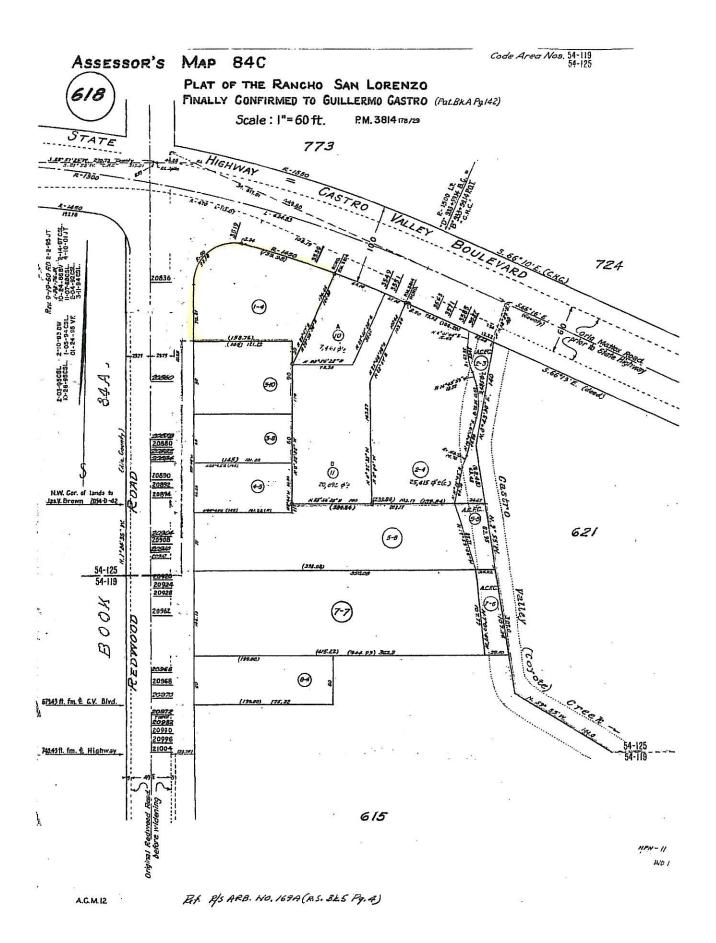
<u>Map</u> ID	<u>Well</u> Count	Address	<u>Owner</u>	<u>Drilldate</u>	<u>TD</u>	<u>Diam</u>	<u>Use</u>
1	1	19945 FOREST	MR. WEHE	3/78	51	8	DES
2	2	20450 REDWOOD RD	EXXON OIL	8/77	50	0	Unknown
3	3	20680 FOREST AV	G.G. PAUL KASMER	Oct-73	20	0	DES
4	4	2633 VEGAS AV	ANNA WEEDEN	4/77	24	4	Irrigation
	5	3234 Castro Valley Blvd	Mitzi Stockel	Apr-90	8	2	BOR
	6	3234 Castro Valley Blvd	Mitzi Stockel	Apr-90	16	2	Monitoring
-	7	3234 Castro Valley Blvd	Mitzi Stockel	Apr-90	16	2	Monitoring
5	8	3234 Castro Valley Blvd	Mitzi Stockel	Apr-90	16	2	Monitoring
	9	3234 Castro Valley Blvd	Mitzi Stockel	May-90	23	2	Monitoring
	10	3234 Castro Valley Blvd	Mitzi Stockel	May-90	20	2	Monitoring
	11	3369 Castro Valley Blvd	Chevron USA	Oct-93	20	2	Monitoring
0	12	3369 Castro Valley Blvd	Chevron USA	Oct-93	20	2	Monitoring
6	13	3369 Castro Valley Blvd	Chevron USA	Oct-93	20	2	Monitoring
	14	3369 Castro Valley Blvd	Chevron USA	Oct-93	20	2	Monitoring
	15	3430 Castro Valley Blvd	Goodyear	Dec-96	16	2	Monitoring
~	16	3430 Castro Valley Blvd	Goodyear Tire & Rubber Co	9/94	20	2	Monitoring
7	17	3430 Castro Valley Blvd	Goodyear Tire & Rubber Co	9/94	20	2	Monitoring
	18	3430 Castro Valley Blvd	Goodyear Tire & Rubber Co	9/94	20	2	Monitoring
	19	3533 JAMISON WAY	R. NAHAS CO.	?	25	5	DES
8	20	3533 JAMISON WAY	R. NAHAS CO.	?	20	5	DES
9	21	3559 JAMISON WAY	R. NAHAS CO.	Dec-75	56	0	DES
	22	3889 Castro Valley Blvd	VIP Service (MW1)	Nov-93	20	2	Monitoring
10	23	3889 Castro Valley Blvd	VIP Service (MW2)	Nov-93	20	2	Monitoring
	24	3889 Castro Valley Blvd	VIP Service (MW3)	Nov-93	20	2	Monitoring
11	25	4057 STEVENS ST	R. FORQUEN	?	70	8	Irrigation
		Wells C	outside the 1/2 Mile Radi	ius			
NA	27	B & A ST	BENNCHAMP	9/46	512	10	Domestic
NA	28	1768 Knox St	John Higginbotham	1/94	50	5	Domestic
NA	29	1783 KNOX STREET	NANCY C. CARTER	Oct-88	0	60	DES
NA	30	22178 N. 6TH STREET	WAYNE ONSTOTT	Jul-89	30	8	Domestic
	31	21195 Center Street	Office of State Architect	1/90	0	6	BOR*
NA	32	21195 Center Street	Office of State Architect	1/90	0	10	BOR*

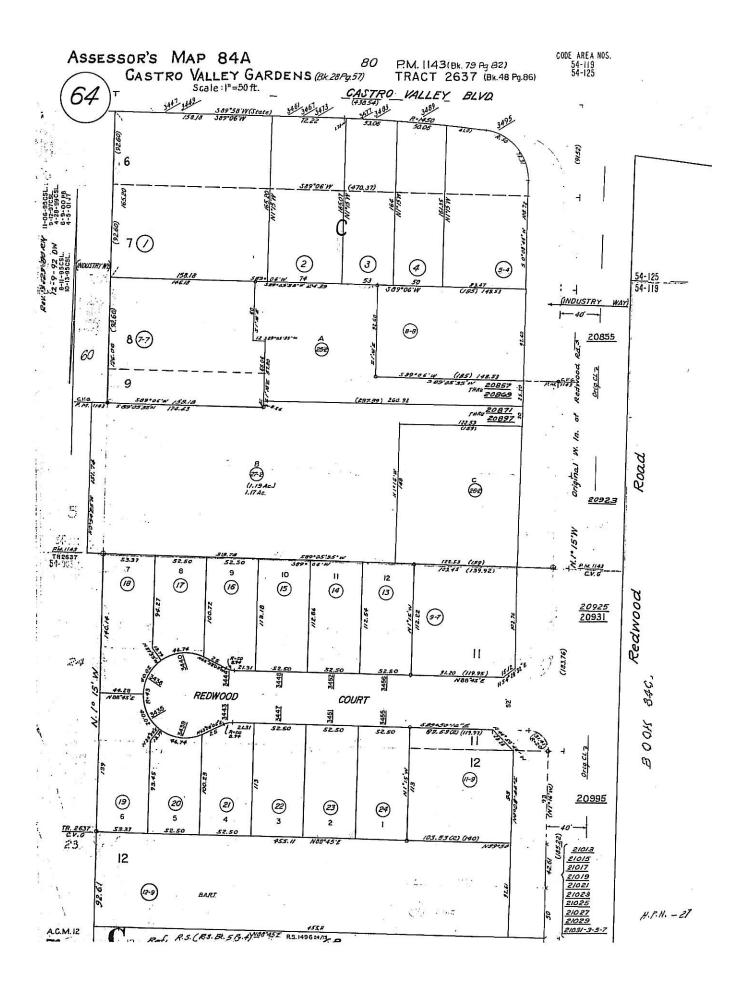
Note:

NA- Not Applicable MON- Monitoring IRR- Irrigation DOM-Domestic DES-Destroyed BOR- Boring TD-Total depth

Appendix A

Parcel Maps





Appendix B

Drillers' Logs (Department of Water Resources)



Ju) 11 05 12:59p

40, PS+RED+ 3" + floor APRILA SCHOOL STORE DEPARTMENT OF WATER RESOURCES SOUTHERN DUSTRICT 770 February Avenue BAN JOACLEN DETRICT SITN E. SHORE AN DE AT Preses CA ESTRE NCRTHERN DISTINCT 2440 Main State Rus BLA, CA DOLLO STITUTION (Bantista, CA 11203 a15) 500 7046 ct. 223 (116) 519-1004 Fml CENTRAL DESTRUCT (1000 200-4000 (300) 770-2001 (*=) 101 P 2000 Caroninerity, CA 25814 (The 181-0750 WELL COMPLETION REPORT RELEASE REQUEST AND CONFIDENTIALITY AGREEMENT 5307 SP9-7772 (***) Print #1-9726 [*05 REGULATORY-RELATED ENVIRONMENTAL CLEANUP STUDY Well Completion Reports secondated with wells located within two milles of an area effected or potentially effected by a locate security for an ended of a contentinent will be made available upon request to any person performing in advisonmental charges study metoclated with the unsubformed release, if the study is conducted partners to a Perquesis must be made on the form balant, signed and submitted to the appropriate DWR Dispict Office. Plasse provide the tranship, range, and section of the property where the study is to be conducted. Alloch a map of a statich with a north array, and provide as much standiging information required before as possible, additional By signing below. One requester advantinging and agrees that, in compliance with Section 13757, the information bindings from these reports will be hept confidential and will not be deserviced, published, or made a set to provide by the public. Copies strained must be stamped COppenDigited, and kept in a registrated its anaptable only to sufficient personnal. Their reports must not be used for any purpose other then for the purpose of conducting the emissionmental cleanup study. County: Alemede Project Name: BP City: Capitro Valley Breat Address: 3519 Cestry Valley Bive., Radius: 1/2 miles (2040 ft) Interiment 2 miles) Township, Range, and Sudight (include unifies such yorks and a map that shows the press of interest.) ADEH<u>IS</u> SOMA Environmental Eng. Party Adventy Marine Received a Lormon W Steven Plunicet Agency Contact Name (please print) Egna Margo Requester's Harno (pleases print) 1131 Harbor Bay Purloagy, Suite 250 6620 Owens Orive, Suite A 7. down Address CA 94501 ic. and Zip Code Playerinton, CA 9468 City, Se City, State, and Zip Code كلفو × Conditions. Signature: Title: Paperdous Materials Specialist THE GIS SCOCOL Telectrone: (5)0) 567-6790 Telephone: (825) 734-6400 FAX: (510) 537-9335 FAX: (925) 734-6404 Dete: Deta: July 1 . 2006 Stor Sterren plunkellencov. OFO E-mail: emailsomeenv.com 47 July 2000

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

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Was wall gravel packed Was a surface senitary Way any strate seeled Strate seeled	Section No. Section No. Section No. Township. Range. Base & Meridian. Show location of time, thus (X) Distances to section well, N or S. and E or W. Show location	Tell in Sec- fines from fr. of nearest	nch dotsiled descrip) These of work; Wyck started de Date of this sep WELL DRILLE This well a report is true to [STORTED] Re-	FOR OFFICIAL USE ONE refling 3 Completed data 18 we Samp 18-15 3 RS STATEMENT: we drilled ander my paralletten an the best of my knowledge and ballet A. D. Lee & Sales with These
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¥ / 40 01-1355 * Report No. 152 Omer Mortin Nursare Pump No. <u>Bx 1081</u> x Neter No. Region 2; County Alisside Township 35, Range 2W, Section N.D 261. <u>1399</u> It. north, <u>2400</u> It. west from southeast corner of Section. (in shask <u>s k b t ç h</u> Well 3KI îγ Onega Avi 43 13 13 FOR OFFICIAL USE ONLY DESCRIPTION OR REMARKS In Costro Volley O.Y M: No Costro Valies Rd. an Forist live to Martin Marson Dig Minic of redy well with Exceptioneses. Checked by RF Zief Data Sort 11, 1950

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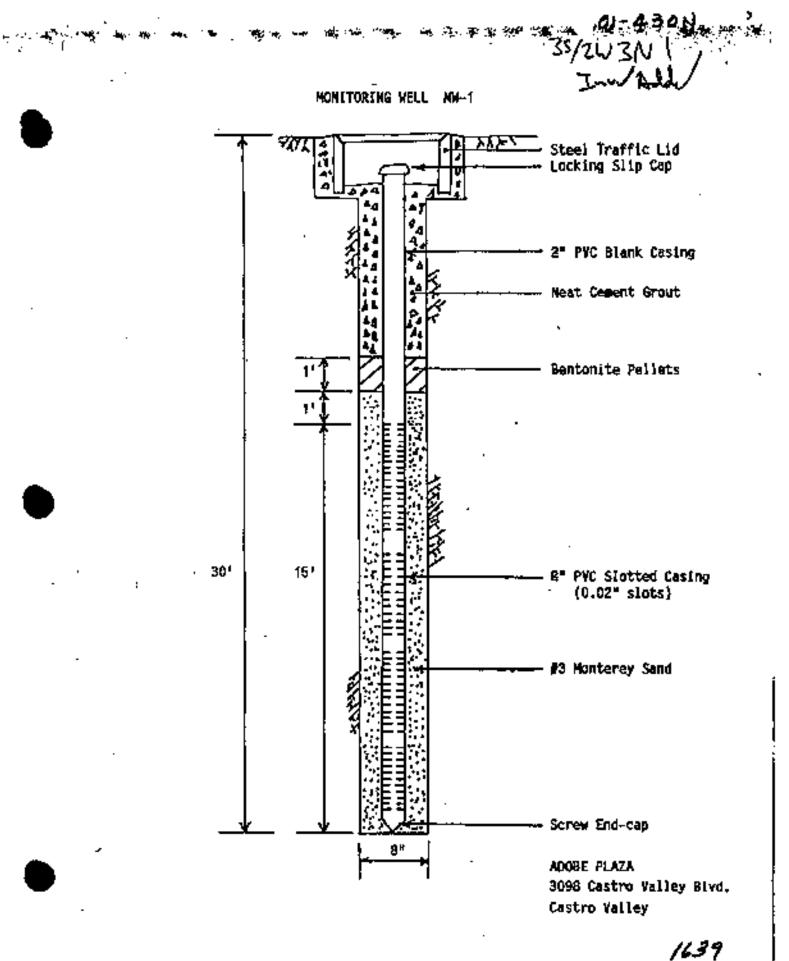
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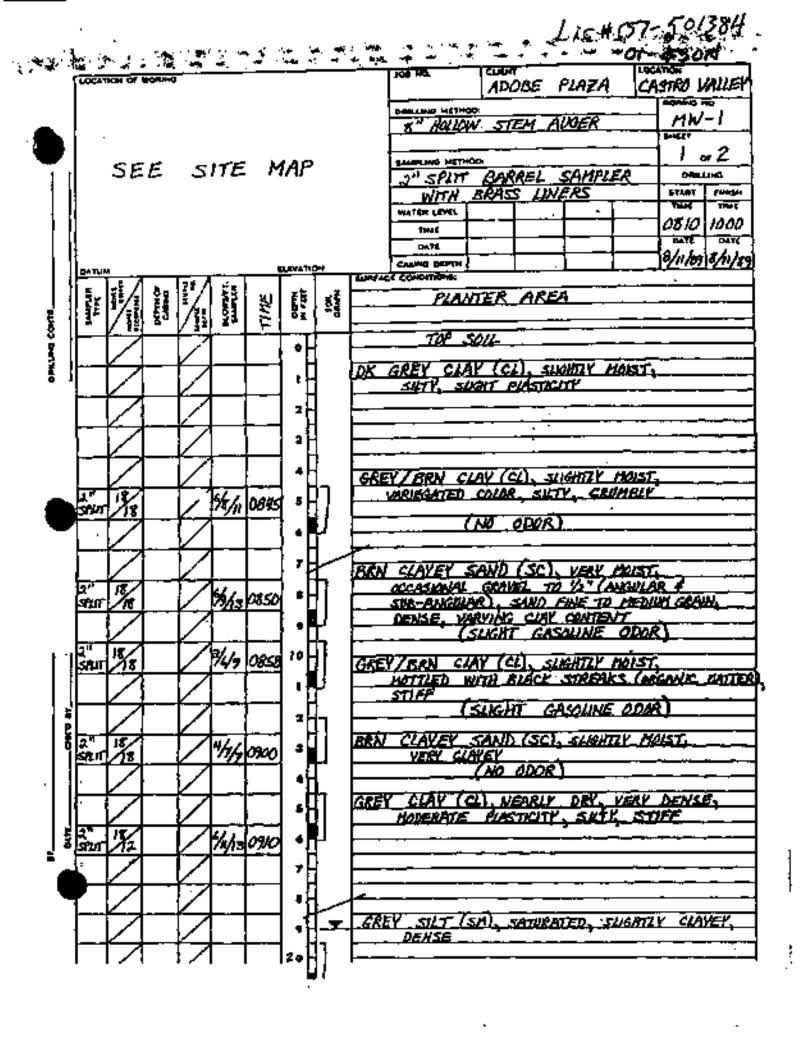
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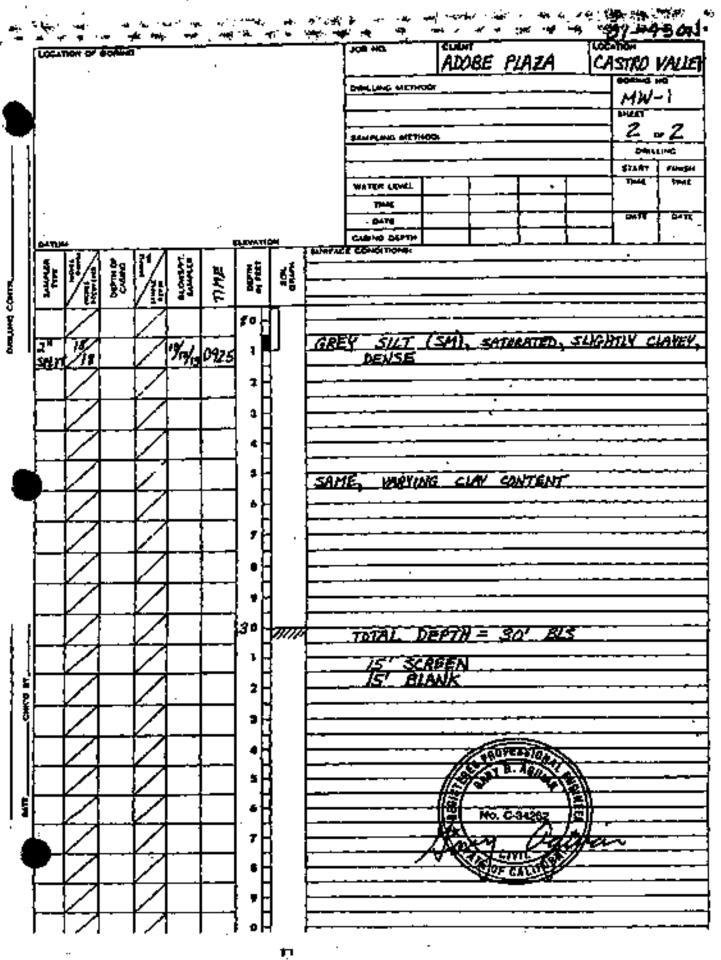
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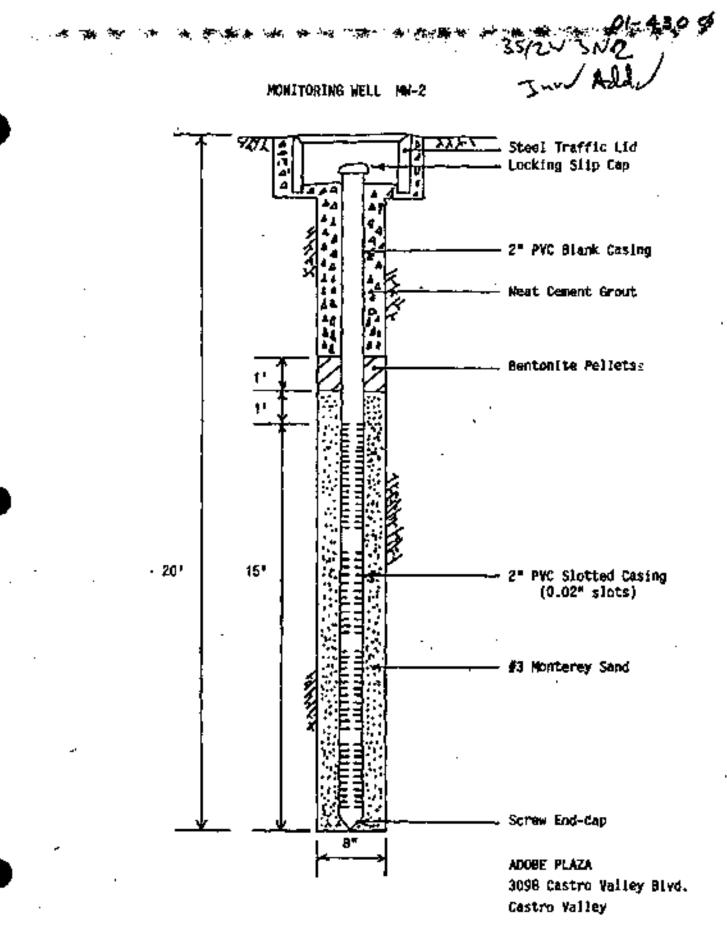
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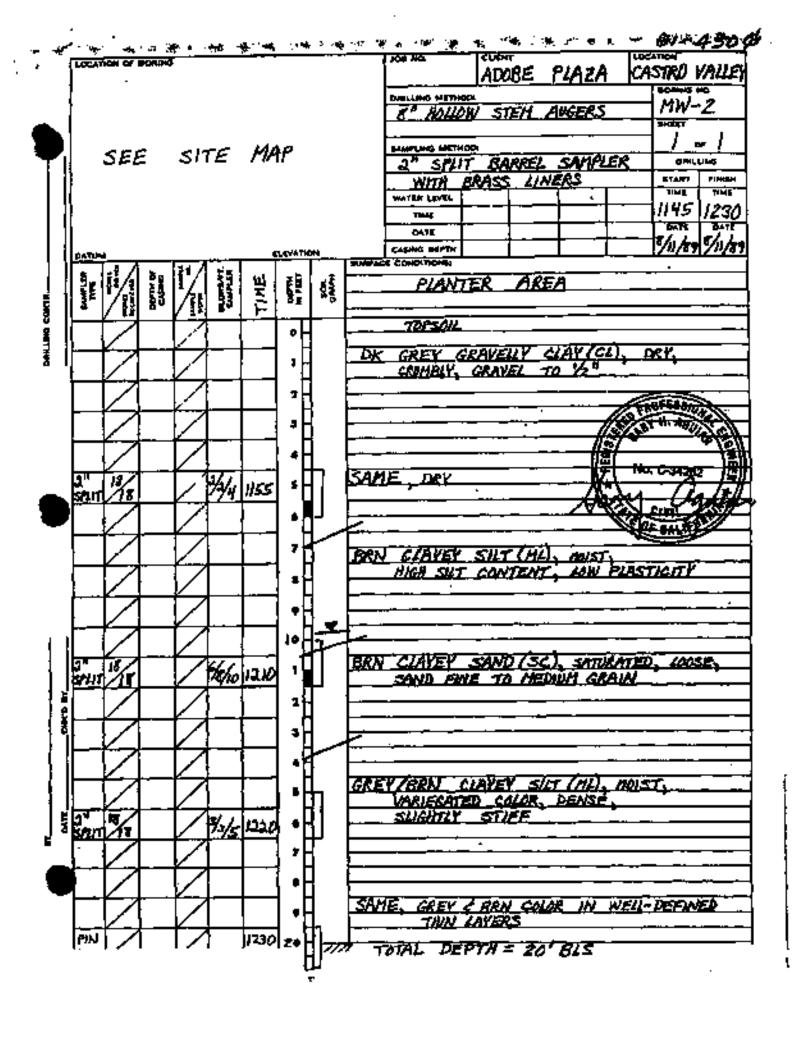
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<u>.</u>		WELL LOG	i		•
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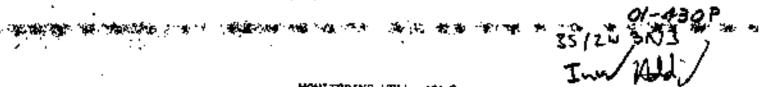


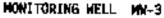


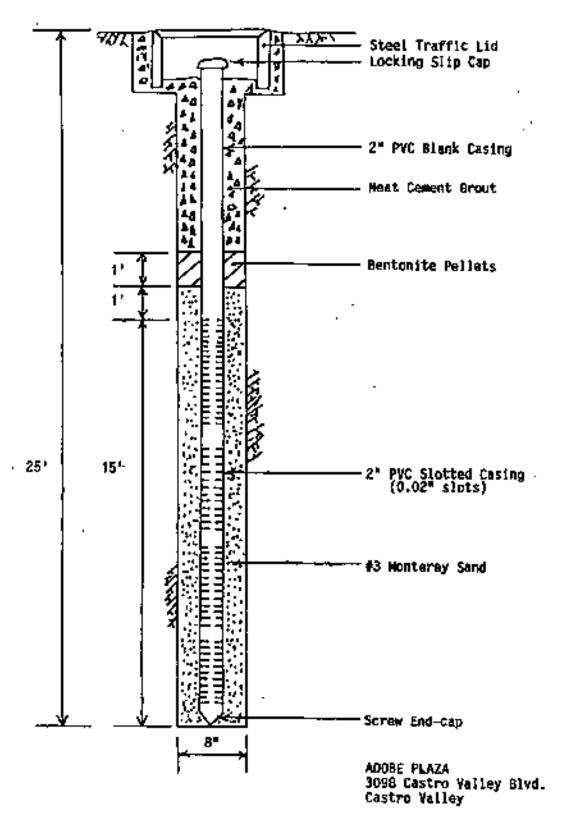


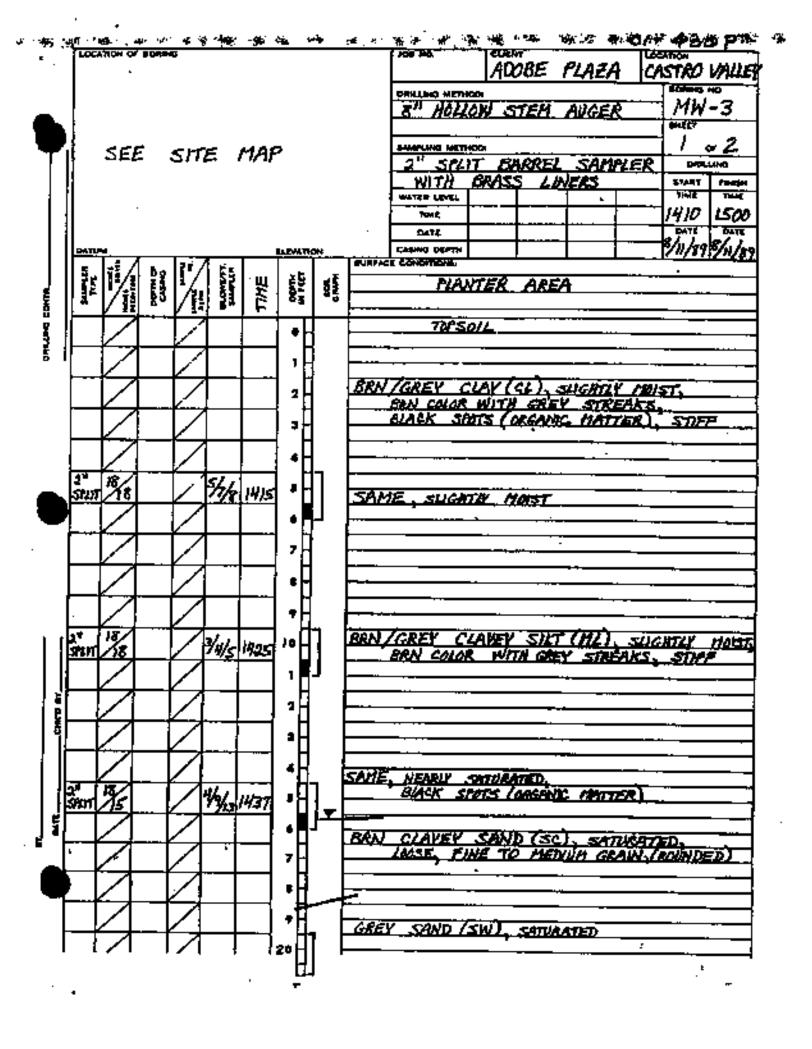


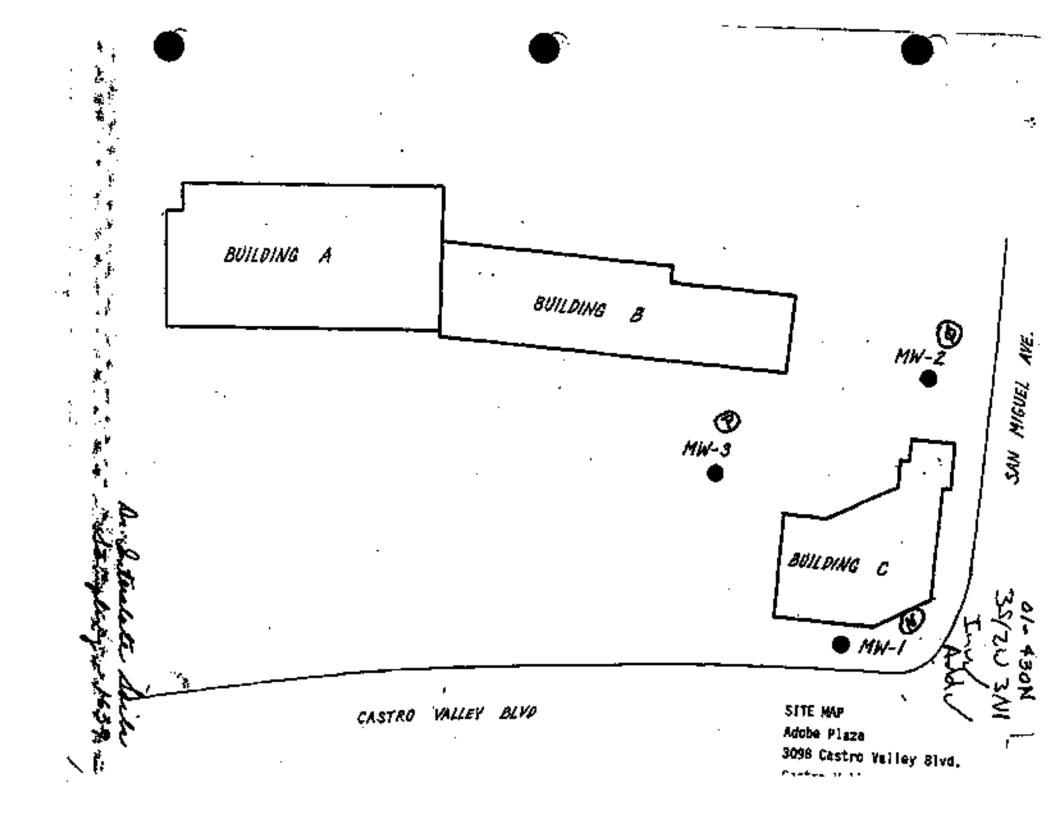












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SKETCH LOCATION OF WELL ON REVERSE SIDE

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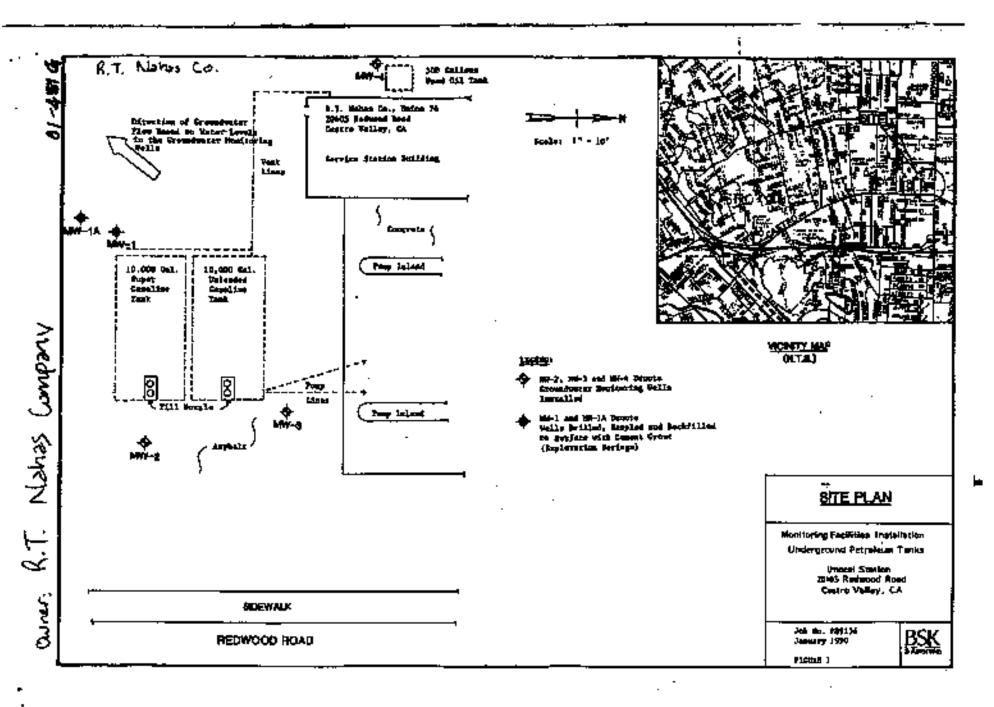
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	ATION R LEY	/EL:	Xo	511e)	DīU			ered at 20'-0", then rose to 12'-5" 8" Bollow Stem Auger	JOB1 PB91: FIGURE:
DEPTH, FEET	NONWEL 11 DIANCTER, W.	BLOWS /FOOT	% JUNISION	DRY DENSITY, PCF	SaMPLES		ty.S.C.S	SOIL OF ROCK DESCRIPTION	NOTES
			-			T,	PHT	2" Aspheltic Concrete over 8" Aggregate Base	Surface sea depth = 12
								SILTY CLAY: Brown, wery met, moft	PID = 0.0
-							<u>CH</u> OH	SILTY CLAY: Black gray, saturated, soft, organic clay fraction	
-					{ .				PID to 11.
5-	2.0	13	<u>-</u> .	-	1		<u>टव</u> दा.	SILTY CLAY: Greenish gray, moist stiff, clighty sandy, nome air voids, blocky texture	
-							대	SANDY CLAY: Light yellow brown, moist, very stiff, horisontal air voids	
ю-	2.0	21	-	-	2				P15 = 0.0
							CL	SILTY CLAY: Light yellow brown, moint, wery stiff to hard	<u> </u>
15 -	2.0	38	[-	-] 3				PID - 0.0
-									
-							CL SC	SANDY CLAY: Light yellow brown saturated, very stiff	1
20- -	2.0	23	-	-	4	•		Gradem to clayey fine send	
-									
-	1 <u>3</u> ∺ 18	-	-		1		CL	SILTY CLAY: Light brown, saturated	1

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	1	120	×	sirv,				
DEPTH, FEFT	NOMINAL DIAMETE	HLONS / FOOT	MORSTUR	ORY DENSITY.	SAMPLES	US.C.S	SONL OR ROCK DESCRIPTION	NOTES
25						CL	SILTY CLAY: Light brown, saturated, very stiff, sand fraction	<u> </u>
-				! 				
- 30-	1 <u>)</u> "	13	-					
1								Boring terminated 31'
÷								30' monitor Well instal having 15' casing over
-								2" diam
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<u>ss</u>		is sha	- SU8				15 It Sampte marks (AM. D. AND IT	DAVEDCL



	.	VEL:		ile D	r11			red at 19'-0", then rose to 12'-4" 8" Hollow Stem Auger	JG8: P8911 Figure:
DEPTH, FEET	NOWINEL (1)	BLONS / FOOT	NOISTURE V	DRY DEHSTY, PCF	COLUGE CE		U-SC S	SOIL OR MOOK DESCRIPTION	MOTES
-	_]	[PHT	3" Asphaltic Concrete over 8" Aggregate Base	Surface seal depth = 11'
-							a.	SILTY CLAY: Brown, moist	
								SILTY CLAX: Black gray, saturated soft, organic clay fraction	PID - 0.8
5 -	2.0	27			 1	L	태명	SILTY CLAY: Greenish grey, moist stiff, mottled yellow brown	PTD → 1.2
	2.0	28	-		2		뉌며	SANDY CLAY: Light yellow brown, moist, sriff, mottled olive brown, numerous boritontal sir volds	F1D - 0.0
С. Т Т.	2.0	36		-	3		- E	SILTI CLAT: Light yailow brown, moist, very stiff to hard, slighty wandy, blocky texture	
	2.0	37	, L		4				
20_							а 289	SANDY CLAY: Light yellow brown, wet, very stiff to hard Satureted at 20' SILTY CLAY: Light brown seturated	PID - 2.5

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	2: 620 B ¹ VATION		12- HC	-076	9			LOG DESIGNATION	01-451 I
FOR	EA LE		In;	itial Sile,	ly Dri	еци 11	count 1-53	ered at 16'-6", then rose to 12'-2" <u>8" Hollow Stem Auger</u>	JC8: 189134 FIGURE:
DEPTH, FEET	NOMINAL ()	12)	MOISTURE %	ORY DENSITY, PCF		SAMPLES	USC.B.	SOIL OA ROCK DESCRIPTION	HOTES
							PHT	2.5" Asphaltic Concrete over 1.5' Aggregate Sase	Surface seal depth - 8'
-					ĺ			SILTY CLAY: Black gray, very moist, medium stiff	PID = 0.0
5 -	2.0	30	-	-	1		CL	SILTY CLAY: Greanish gray, moist.stiff to very stiff, numerous vertical small sir voids	PID = 0.0
8 1	2.0	23	-		2		cr.	Grades to yellow brown, stiff, black staining in root voids SANDX CLAY: Light yellow brown, moist, stiff	PID to 2.3 - No odor noted-
а 1	2.0	22	-	-	3			Grades to very moist, plive staining on rootlets	PID - 0.0
+	2.0	27	-				CL SC	fine-reained cand. stiff	PID to 6.1
20-1 - - - - -							CL :	SILTY CLAT: Light brown, saturated stiff	2" diama 25' monitoring well installed having 10' of cesing over 15' of screen Boring tyrninates at
 IS N OF 3	IHE DU KOT WO	ARRAN Rface 15.	사진 (760	OCATIC TMAT PITION	INS THE	*0	CATED IRC M THER		BSK

	DATE LOGE ELEV	:: :ED 81 /ATIOI	r: •:	12/ 8C	05/89			LOG DESIGNATION	01-451
	Equi	A LE PMEN	T:	Kob	il Dr			ered at 20'-0", then rose to 12'-0" 8" Hollow Stem Auger	JOB : P891; FIGURE :
	DEPTH, FEET	NGLINKL ()	BLOWS / FODT	NOISTURE Y	DRY DENSITY, PCF	SAMPLES	US.CS	SOIL OR MOON DESCRIPTION	NOTES
							PMT	2.5" Asphaltic Concrets over 8" Aggregate Base	Dellace les
	-						сL	SILTY CLAY: Brown, moist, firm	depth - 30'
	-						CR	SILTY CLAY: Black gray, seturated soft $^{-2}$	
	5 -		22			L	퍮	SILTY CLAY: Greenish gray, moist, stiff, slighty sendy, numerous air voids	PID = 0.0
) .	<u>0</u>		27	-		2	립보	SANDY CLAY: Light yellow brown, molec, very stiff	
		_					GL SC	SANDY CLAY/GLAYET SAND: Light yellow-brown, moist, very stiff strong bydrocarbon odor Saturated at 17	-
1	51 - - - -	-	28			3			PID to 28. PID to 605.
			36			•	sc	CLAYET SAND: Greanish gray, saturated No odor	
	20_							SULTY CLAY: Light brown, moist, very atiff Seturated at 20'	
	25 I							Note: PID demotes Photo Ionization Detector reading in PPM	
, .	THE	. 100: Test - 1	S SHOW	506	SURFAC	E CO4		5 (1) have de la per de la De	niller por

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	E: GED IN VATION		12 MC	}-07-4 :	89			LOG DESIGNATION HIN-LA	01-451 X
WAT	ÉN LE	VEL:		bila	Drí	10t	ed at 8-51	t 15' (not werer table) 3 8" Hollow Stem <u>Auger</u>	J08: 289134 Figure:
OCPTH, FEET	NOMINAL (1) DIANETER, M.	C (2)	NOISTUNE Y	DAY DENSITT.	SAMPLES		vi U Vi SGIL OR ROOK DESCRIPTION ⊃		HOTES
]					Π		2.5"Asphaltic Concreteover B" Aggregate Base	† – – – – – –
							다	SILTY CLAY: Black gray, very moist. medium stiff	PID - 0.0
	1							Grades to gray brown	
									PID = 0.0
15 -	2.0	27			1		сL	SILTY CLAY: Greenish gray, moist stiff to very stiff	- PID = 0.0
								Grødøs to yellow brown	
								Grades to mottlad gray yellow-brown	PTD = 0.0
	2.0	28	_						PID to 342.0
	1*:0		-		-2		5	SANDY CLAY: Graenish gray, molet stiff, strong hydrocarbon odor	
	{							Grades to very molar	FID to 58.0
	2.0	20	-		3			Grades to yellow brown, moiet, lesser	PID to 37.0
15 -						Π	ļ	sand fraction and slight oder	
						ļſ	CC SC	SANDY CLAT: Yallow brown, saturated moft no odor	1
ļ	2.0	35	-	-	٠	ļ	сі,	SILTY CLAY: Raddiab brown, damp,	71D - 0.0
	\square	-				Π		very stiff to hard	Boring
·									fterminated at 171' backfill
20-					1			•	to surface W: meat grout
·	11								Note:
•									Surface seal depth = 17.5
]				
25									
	THE D	KARAN	ANO I NTED	LOCATE THAT	ONS THE	400 (*	ARE P	9 (+) SAMPLER (HERE ORDER) (0, AND IT (2) SAMPLER (HERE) (10, AND IT (2) SAMPLER (HERE) (10, AND IT (2) SAMPLER (HERE) (10, AND IT (2) SAMPLER (HERE) (11, LOCATIONS ((BSK

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ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVENTION 2018 FRICT

VE 1 PLEASANTON, CALIFORNIA 94588 1 (415) 484-2600

5997 PAAKSIDE DAIVE

EASANTON, GADFORNA 9

GROUNDRAMEN PROPERTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO CONFLETE

country of project Theorem 74	
CONTROL OF PROJECT UNDERLY 76 20405 Bechwood Bal. Castro Valley, CA.	
Carbon Valley CA.	
19840 2000 2000 2000	
denoes 20000 Robo Drive Prove Hty Gratico Valley, CA Zip 94346	
dinnes 20030 Prive Phone	
ty Gatro Valley CA ZIP 94546	
PPLICAT	
BSK & Associates	(
deress 5729 F Sokaria Dr. Mane 415 482 4000	
odress ST29 F Sonorma Dr. Phone 4/5 462, 4000	
ity Pleaser Hten ZIp 94566	
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ad Rotary Air Rotary Auger	
addle Other	
CURT URARUT	
RILLER'S LICENSE NO. <u>C-57 490947</u>	
AELL PROJECTS Dritt Hole Classifier <u>3</u> In. Hexister	
Dritt Hole Dissetor 3 is. Hexisten	
Casing Diameter <u>2</u> in. Depth <u>35</u> ft. Burlace Seel Depth <u>15</u> ft. Number 4	
entities seal matrix (12) is a series (12)	
NEOTECHNIKAL PROJECTS	
Number of Sorings National Hole Clameter (q Depth _ <u>18_</u> ft.	
—	-
STUMATED STARTING DATE $\frac{B/(z/q)}{(37)/(3/2)}$	
SET (MATED DOMPLETION DATE . 37/5/9/	
and Alemedy County Ordinance No. 73-68.	
and Alemedy County Ordinance No. 73-68.	

SHE LOOK 18 7am 12 - orte 3/3/9/ SIGNATURE

203 01 16: U.S.

01-447 35/2W 3P

MAR _ 1 1991

PERMIT	HANGER .	91136
LOCATIO	HINDER	

PERMIT CONDITIONS

Circled Permit Regulamente Apply

A.) GENERAL

- A permit application should be submitted so as to errive at the Zone 7 office five days prior to proposed starting date.
- Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Mater Hell Driflers Report or equivalent for unit projects, or drilling tops and location skatch for geotechaical projects.
- 3. Paralt is void if project not begun vitters 90 days of approval date.

B.) WATER WELLS, INCLUDING PIEZONETERS

- Hiplaca surface seal thickness is two inclus of campat growt placed by travis.
- Highman seel depth is 50 fast for semicipal and industrial yells or 20 fast for densatic and (rrightion value unless a laster depth is specially approved. Misters seel depth for monitoring multiple the monitors depth profilesble or 20 fast.
- c.) GEOTECHNICAL. Beckfill bore hole with compacted cettings or heavy bestontte and upper two feet with compected exterial. In areas of known or exsected contamination, traveled constat growt shall be used in place of compacted cettings.
- D.- CATHODIC. Fill hole shows made zone with concrete placed by framile.
- E, MELL DESTRUCTION. See attached.

Dets 8 Mar 91 121989 122-

WATE	BALCH	VEL:	717s	t Sne	:ðún	C .	red a	MGL at 15' Jeing 8" Hollow Stem Auger	JOB; 290165 PRUNE: 6
DEPTH, FEET	NOMINAL (1)	12)	N. THILLING	ORY DENSITY, PCF	SAMPLES		U.S.C.S.	SOIL OR ROCK DESCRIPTION Asphalt Surface (2-1/2 10ches)	HOTES
0	<u> </u>					Π	TIL	AGCREGATE BASE: Orange and gray, molet to wat	210 to 0
-							· . ·	CLAYEY SILT: Black, damp	FID to Q
5	2.0	41	-	-			161.	CLAYET SILT: Mottled derk-gray and yellow- brown, very stiff to herd, damp, roothets	PID to O
- 10 -	2.0	42			1		<u>5</u> C	CLAYET SAND: Nottled blue-gray and yellow- brown, moist, dense, many very fine pores, hydrocarbon odor	FID to 37
	2.0	30	-		2		۲.	SANDY SILT: Orange-brown, fine-grained and, minor clay, moist to wat, very stiff, porous, esturated pores have strong our	FID to 1500 First Racous FID to 20
15 - - -	2.0	27					sc	CLAYEY SAMD: Orange-brown, saturated, modium-dense	FID to 70
- 20 -				, ,				Note: Sheen observed on water in boring	Boring Terminated at 16 ⁴ Boring
									Backfilled with Grout PID = Photo-innizati Detector

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	OI-4970 38/22 3P NECEIVED MAR_1 1991 ONTROL AND WATER CONSERVATION AND WATER CONSERVATION AND AND WATER CONSERVATION LEASANTON, CALIFORNIA 94598 (416) 484-2800 INANCE PERMIT APPLICATION
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
cartical of project <u>Unocal</u> <u>16</u> <u>2040.5 Reduced Rel.</u> <u>Castro Valley, CA.</u>	PERMIT NUMBER 91136
utent Robert T. Jahas doress 20030 Rutho Drive Phone ity Castro Valley CA 210 94346	PERMIT CONDITIONS Circled Permit Requirements Apply
PPLICANT BS)T & Associates <u>Jim Benger</u> ddress S719 F Some Har Dr. Phone 4/3 482 4000 Ity <u>Pliascumber</u> 21p 94566 YPE of project all Construction Contentation Supply toring <u>X</u> Well Destroction	 A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. Submit to Zone 7 within 50 days after completion of permitted work the original Department of Vater Resources Mater Vall Drillers Report or equivalent for well projects, or drilling logs and location shouth for geotechnical projects. Permit is void 16 project not began within 90 days of terms of terms.
ROPOSED WATER SUPPLY WELL USE catestic industrial other Valcipal irrigetion RILLING METHOD: Med Rotory Air Rotory Auger _X able Other Auger _X RILLER'S LICENSE NO C-57 Y909972. ELL PROJECTS Drill Hole Dismater 3 in. Depth 5571. Surface Seel Depth 15 ft. Number 41 EOTEONNICAL PROJECTS Hamber of Borlegs 5 Heclaum Hole Dismater 5 in. Depth 18 ft.	 days of approval data. WATER WELLS, INCLUDING PIEZONETERS Minimum surface seal thickness is two lackes of compating rout placed by truste. Minimum seal depth is 30 feet for semicipal and industrial wells or 20 feet for domestic and icrigation wells unless a lasser depth is specially approved. Minimum seal depth for sonitoring wells is the maximum depth practicable or 20 feet. BEDIEDENICAL. Bachfill hore hole with compacted cuttings or heavy bestable and upper two feet with compacted material. In arms of known or suspected contamisation, trusted cament grout shall be used in place of compacted cuttings. CATHODIC, Fill hole above mode some with concrete placed by truste.
STIMATED STARTING DATE $\frac{3/12/91}{3/15/91}$ why egree to couply with all requirements of this and Algonade Dounty Ordinance No. 73-06. PPLICANT'S $fam Barger Date 3/0/91$	Approved - Million April Dete 8 Mar 91 Wymen Bong (21969

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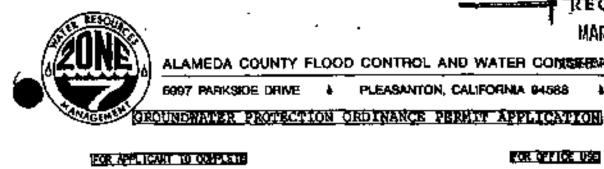
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	01-4977 38/2W 3P
	MAR _ 1 1991
((CUILE))) ALAMEDA COUNTY FLOOD C	ONTROL AND WATER CONSERVATION ANALETRICT
	EASANTON, CALIFORNIA 94668 4 (415) 484-2600
GROUNDWATER PROTECTION ORD	INANCE PERMIT APPORTATION
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CONTION OF PROJECT <u>Underal</u> 16 2040.5 Bealwood Bol	PERHIT NUMBER 91136
Castro Valley, CA.	
LIENT Lens Bobert T. Wahas utereus 20130 Patho Drive Moore	PERHIT CONDITIONS
ity Castro Valley, CA zis 44546	Gircled Permit Requirements Apply
PPLICANT Lano BSK & Massociades	
Tim Banger	I. A permit application should be submitted to as to
deress 5729 f Sozenna Dr. Phone 4/25 462 4000 ity Pleaseentan ZIp 74366	arrive at the Zone 7 office five days prior to proposed starting dote.
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ROPOSED WATER SUPPLY WELL USE	days of approval date. (B) WATER WELLS, INCLUD(NO P)EZONETERS
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JELL PROJECTS Orill Hole Disector 🔰 In. 🌱 Maximum	tings or heavy bentonite and upper two feet with com- ported meterial. In areas of known or suspected
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where the comply with all requirements of this where the country ordinance No. 75-66.	All the second sec
WILLIONITIE - Luni D	ADDE DATE S HAT 91
VINLIGHATURE Jan Burge Dato 3/8/91	121969

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CONTROL OF PROJECT UNDER 76	
20405 Rectwood Rd.	
Castro Valley, CA.	
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Bobert T. Nahas	
diress 20530 Ritio Drive Picone	
ity Castro Valley (A zip 94346	
PFLIGNIT	
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Bak + Haraciates	
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RILLER'S LICENSE NO	
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Certi) Hole Diameter 2 in, Heximum Certing Diameter 7. In, Depth 3511.	
Casleg Olaaster <u>1</u> in, Depth <u>35</u> 17. Surface Seel Depth <u>15</u> ft, Number <u>4</u>	
SULTACE SHOT VADAN 125 114 WARNER TO .	
ECTECHNICAL PROJECTS	
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and Alemedy County Ordinance Ho. 73-66.

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FOR OFFICE USE

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PERMIT CONDITIONS

Circled Permit Requirements Apply

A.,) GONERNL

1. A permit application should be submitted as as to arrive at the Zone 7 office five days prior to proposed starting date.

2. Semit to Zone 7 within 60 days after completion of permitted work the original Department of Nator Responses Nator Well Drillors Report on equivalent for well projects, or drilling logs and location skatch for geofectalost projects.

3. Permit is void if project out begun within 90 days of opproval data.

6.) WATER WELLS, INCLUDING PIEZOHETERS

- 1. Niplana surface seel thickness is two lockes of canent grout placed by treates
- 2. Minimum seal depth is 50 feet for municipal and industrial walls or 20 feet for demetic and irrigation with univer a losser depth is specially approved. Minisce seal depth for conttoring wills is the eacieum depth practicable or 20 feet.
- C.) GEOTECHNICAL. Backfill bore hole with compacted oritings or heavy bentonity and apper two fast with compacted meterial. In areas of konten or suspected contacisation, transed cament grout shall be used in place of compacted cuttings.
- 0...CATHODIC. Fill hole above seade zone with comparent placed by fremie.
- E. WILL CESTRUCTION. See attached.

Date 6 Mar 91 121969 0.53

MAR _ 1 1991

(415) 484-2800

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ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION ON PRICT

PLEASANTON, CALIFORNIA 84588

6997 PARKSIDE DRIVE



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MAR _ 1 1991 • COUNTY FLOOD CONTROL AND WATER CONSERVATION (1991

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION ANALESIS

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94568

CUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

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Castro Valley, CA.	
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Clear Blue T Shear	
Lieur Robert T. Welkas	
denses 20030 Roho Drive Phone Hy Costro Valley CA 210 94346	
ity Casture Adding CV ZIN 44546	
APLICANT	1
Tim Benjer	(
Tim Benjer	
Adress STEP F Solie Ma Dr. Phone 4/3 462 4000	
aty Pleasanten zip 74566	
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Cealing Clampter <u>2</u> 10. Depth <u>35</u> (t. Burface Seul Depth <u>15</u> ft. Number 4	
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Number of Sorings 🤔 Nacimum Hole Dissetur 🔒 In. Depth 18 11.	
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STINATED STARTING DATE	
STINATED COMPLETION DATE . 3/3/9/	
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and Alamada County Ordinance No. 75-68.	
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HELICANT'S Jan Buge Data 3/8/91	
HOMATURE CAM Duge Date 3/8/9/	

FOR OFFICE USE

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(415) 484-2800

PERMIT MUNISER ______91136 LOGATION NUMBER _____

PERMIT CONDITIONS

Circled Percit Requirements Apply

a.) gehernl

- A permit application should be aubeitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
- Submit to Zone 7 within 60 days effor completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling (op) and location sketch for geotechnical projects.
- 3. Permit is void if project not began within 90 days of approval date.

5.) WATER WELLS, INCLUDING PICZONETERS

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- Hintern such depts is 50 feet for sufficient and (ndustrie) wills or 20 feet for domestic and Errightion wells unless a lenser depth is specially approved. Minimum eval depth for monitoring wells is the maximum dupth prosticable or 20 feet.
- C.) GEORECHICAL. Backlill born hole with compacted arttings or heavy beatonite and upper two tast with compacted material. In areas of known or suspected contemination, framied cament groat shall be used in place of compacted cattings.
- D. CATHODIC. Fill hole shows anode zone with concrete placed by frame.
- E. WELL DESTRUCTION. See attached.

Date 8 Nag 91 21569

	01-497T 35/2W 3P
	MAR _ 1 1991
ZUNE) ALAMEDA COUNTY FLOOD OF	ONTROL AND WATER CONSISTENT TICKEDIGTRICT
5997 PARKSIDE DRIVE & PL	EASANTON, CALIFORNIA 94588 1 (415) 484-2800
GROUNDWANER PROMEONION ORDI	INANCE PERMIT APPLICATION
FOR APPENDIX LTD FORSELTS	
control of project <u>Uniced 76</u>	PERNIT NUMBER 91136
Castro Valley, CA.	
LIBHT Robert T. Nahas	PERMIT CONDITIONS
deress EDGS RATIO DATE Phase	Gircled Peruit Reguirements Apply
me lavin <u>BSK:</u> e Associates	A. GENERAL
Allers ST29 F Sahama Dr. Phone 4/3462 4000	1. A permit application should be satalited so as to arrive at the Zone 7 office five days prior to
ity Pleaser ton Zip 94566	proposed starting date. 2. Submit to Zone 7 within 60 days after completion
YPE OF PROJECT will Construction	of perchitted work the original Department of Noter Resources Nater Nell Drillers Report or
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	2, Mighum seal depth is 50 feet for wunicipal and industrial while or 20 feet for demestic and
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ableOther	specially approval. Minimum seal depth for monitoring value is the anzimum depth practicable
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ELL PROJECTS Oril: Hole Disseter_3_ In. New New New	tings or beavy bastcalte and upper two feet with com- pacted meterial. In areas of known or exapacted
Cooling Dissistor 7_ 1n. Depth 351t.	contumination, tranled cament prost shall be thand in place of compacted cuttings.
	D CATHODIC. Fill hole shave mode some with concrete
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STIMATED STARTING DATE $\frac{3/12/91}{37/37}$	
make agree to comply with all requirements of this	
and Alenada County Ordinance No. 73-66.	respired - Haman Arns Date 8 Har 91

Jani Buge - s/0/91 UPPLICANT'S HONATURE

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A STATISTICS	01-4974 38/2W 3P RECEIVED MAR _ 1 1991
ALAMEDA COUNTY FLOOD C	ONTROL AND WATER CONSERVATION ANALYSTICT
	LEASANTON, CALIFORNIA 94588 6 (415) 484-2000
GROUNDWATER PROTECTION ORD	INANCE PERMIT APPLICATION
FOR APPLICANT TO COMPLETE	
CONTION OF PROJECT LINGCOL 16	PENHIT HANDER 91136
<u>zoyos Bedungol Bol</u> <u>Castro Valley</u> , CA.	LOCATION ANNUER
LIGHT Lane Robert T. Nahas deress 20030 Rate Drive Phone	PERMIT CONDITIONS
ity Castro Valley, CA zip 94546	Circled Permit Requirements Apply
Bak + Marciates	(A.) GENERAL
Adves STRY F Solering Dr. Phone 4/2 482 4000	 A parmit opplication about the antmitted so as to anylys at the Zone 7 office five days prior to
ity Plasantan Zip 74365	proposed statting date. 2. Submit to Zone 7 within 60 days siter completion.
THE OF PROJECT	of permitted work the original Department of Networ Resources Nater Well Original Report or
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for Supply Continuing X toring X Well Destruction	and incention exertain for gestacksical projects. 3. Permit is void if project not begin within 90
	days of approval date.
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(LILL) HE HETHODA	industrial value or 20 feat for domestic and
ked Rotery Air Rotery Auger able Other	irrigation welts unless a lexaer dapth is Specially approved, Minimum sauf dapth for
	wonitoring while is the waximum depth prosticable or 20 (wet.
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ALL PROJECTS Drill Hole Classifier 3_ in. Mascinum	tings or knowy bentonite and upper two fast with com- pacted material. In areas of known or suspected
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Surface Gaal Dapth <u>15,</u> ft. Number <u>4</u>	D CATHODIC. Fill hole above anode zone with concrete
Reference of Contings 5 Hertman	placed by transfe. E. WELL DESTRUCTION. See atteched.
Hole Clumeter <u>3</u> In. Depth <u>18</u> ft,	
STINATED STARTING OATE	- P E
Tayl Alameda Gousty With all requirements of this and Alameda Gousty Ordinance No. 73-68.	Approved - Minning Ast Date & Har 91
HANNER Jan Buye Date 3/3/9/	12/909

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	01-497W 38/2W 3P
CLIN	MAR _ 1 1991
ALAMEDA COUNTY FLOOD C	ONTROL AND WATER CONSELENT THOMASTRICT
	EASANTON, CALIFORNIA 94568 & (415) 484-2600
GROUNDWATER PROTECTION ORD	INANCE PERSON APPECANTON
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
contion of project <u>Unocal</u> 76	MERNIT NUMBER 91136
Castro Valley, CA.	
une Bobert T. Nahas	PERMIT CONDITIONS
Adreas 20530 Patho Drive Phone ity Castro Valley (A zip 94546	Circled Parmit Requirements Apply
Melicum and BSK a Managaras	(A.) GENERAL
Areas 5729 F Solutiona Dr. Phone 4/3462 4000	I. A permit application should be submitted as as to arrive at the Zone 7 office five days prior to
ity Plasantan Zip 74566	proposed starting date, 2. Submit to Zone 7 within 60 days after completion
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Several General Contention	equivalent for well projects, or drilling lage and location skatch for gestechnical projects.
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ROPOSED WATER BUPPLY NELL USE committe	(b.) WATER WELLS, INCLUDING PIEZONETERS 1. Minimum swiftees shall thickness in two inches of
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Called Clameter \underline{Z}_{1} in. Depth $\underline{35}$ it. Surface Seel Depth $\underline{15}$ it. Number $\underline{4}$	contactantion, treated compart great shalf be used in place of comparted cuttings.
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and Alexada County Ordinance No. 73-68.	Approved - Human Aons Doto 8 Wax 97
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	OI-497X 35 (2W 3P NECEIVED MAR - 1 1991 CONTROL AND WATER CONSERVATION CONSERVATION CONSERVATION (416) 484-2600 LEASANTON, CALIFORINA 94568 (416) 484-2600 CINANCE FERMIT APPLICATION
FOR APPLICANT TO COMPLETE	
Castro Valley, CA.	PERMIT NUMBER 91136 LOCATION NUMBER
LIERT me_ Robert T. Wahas Adress 20050 Potto Drive Phone try Castro Valley, CA zip94596	PSWIT CONDITIONS Direled Permit Requirements Apply
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STINATED STATTING DATE <u>3/12/91</u> STINATED COMPLETION DATE <u>3/15/91</u> Toby agree to comply with all requirements of this and Alemade County Ordinance No. 73-68. SPLICANT'S <u>June Burge</u> Bote <u>3/8/91</u> IGNATURE <u>1</u>	Accrowd - Marman Actus Date 8 Mar 91 Wymasi Bong - 121989

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	MAR _ 1 1991
ALAMEDA COUNTY FLOOD C	ONTROL AND WATER CONSERVATION AND WATER CONSERVATION
5997 PARKSIDE DRAVE & PI	LEASANTON, CALIFORNIA 94588 1 (415) 484-2800
GROUNDWATER PROTECTION ORD	INAMES PROLE APPRICATION
20405 Recluded Rd	PERMIT NUMBER 91136
Casho Valley, ch.	- · · · · · · · · · · · · · · · · · · ·
ne Robert T. Wahas	PERMIT CONDITIONS
idenses EPLIC Patho Drive Phone Ity Castro Valley, CA zip 99596	Circled Permit Requirements Apply
PLICANT BSK - Associates	(A) SEMERAL
Tim Benjer Idress Ster F Salama Dr. Phone 4/3 452 4000	I. A permit application should be submitted so as to wrive at the Zone 7 office five days prior to
ity Plascinton Zip 74566	proposed starting date. 2. Submit to Zone 7 within 60 days after completion
YPE OF PROJECT all Construction Geoteche(ca) investigation	of persitted work the original Department of Nator Resources Water Well Origins' Report or
Provid Protection General General	equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
Tioning > Well Destruction	3. Permit 1s vold if project not begin within 90 days of sporoval date.
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RILLER'S LIGENSE NO. C-57 490942.	or 20 feet. (C.) GEOTECHNICAL. Backfill bore hole with compacted cut-
ELL PROJECTS Orill Hoje Diemeter 🤰 In. Maximum	tings or heavy bestonits and apper two feet with com- pacted meterial. In arms of known or suspected
Casing Clamptor 2. In. Depth 35ft.	contamination, travied cament grout shall be used in
Surface Seel Cepth 15 /t. Number 4	place of compacted outtings. D. GATHODIC. Fill hole above anode zone with concrete.
Kotestellical, PRO/ACCTS Number of Borlage 🥭 Xanimum	plead by trante. E. WELL DESTRUCTION, See sttanded.
Hole Diameter <u>S</u> in. Depth <u>18</u> ft.	
STIMATED STARTING DATE $\frac{3/12/91}{57500000000000000000000000000000000000$	
why agree to comply with all requirements of this r and Alemada County Ordinance No. 73-68.	Aproved - Marrison Aona Dere 5 Mar 91
HONTING Jam Buyer puts \$/8/91	Wyman Bong 121999

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1000 Derge Duto 3/3/9/ IGHATURE -

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6997 PARKSIDE DRIVE I PL	OI-4977 38/2W 3P NAR _ I 1991 ONTROL AND WATER CONSERVATION FROM PRINT EASANTON, CALIFORNIA 84588 (415) 484-2800 INANCE PERMIT APPLICATION
FOR APPLICANT TO COMPLETE	
contrion or project Unocal 76 20405 Reduced Rol. Castro Valley, CA.	PERMIT MUNIER 91136
LIGHT Inne Bolgert T. Jahas Vierese <u>20630</u> Rutic Drive Phone Ity <u>Castro Valley (A</u> zlp <u>94346</u>	PENNIT CONDITIONS Circulad Permit Requirements Apply
PPLICANT Ima BSK: & Manacipates 77M Benger Mirmes ST29 F Solvena Dr. Phone 4/3 482 4000 Ity Plascenton Zip _94566	 A. Otherrol. C. A permit application should be submitted so as to arrive of the Zone 7 office five days prior to proposed starting date. Submit to Zone 7 within 50 days after completion
YPE OF PROJECT Geotechnical Investigation Yeil Construction Geotechnical Investigation Yeind(c Protect)on Geotechnical Investigation	of permitted work the original Department of Mater Resources Veter Nell Drillers Report or equivalent for well projects, or drilling logs and location sketch for gestechnical projects. 3. Permit is wold if graject not begin within 90 days of approval date.
ROPOSED WATER SUPPLY NELL USE -ompatic industrial Other km)cipal irrigation	 (0.) WATER WELLS, INCLUD(NE P)EZONETERS J. Minimum starface news thickness is two lockes of centering growt placed by transle. 2. Minimum sent depth in 50 test for monicipal and
etill.(N9 HETHOD: fud Rotery Alr Rotery Auger _X lable Other	industrial walls or 20 feet for dementic and irrightion wells onless a fesser depth is specially approved. Hisimus seal depth for monitoring wells is the maximum depth practicable
ALLER'S LICENSE NO. <u>C-87 490942</u> ALL PROJECTS Ort(I Hole Disector <u>3</u> In. Hackness Casing Disector <u>2</u> In. Dapit <u>351</u> t. Surface Seal Depth <u>15</u> It. Number <u>4</u>]	 or 20 feet. C. ACOMECHICAL. Seckfill bore hole with comparied out- tings or heavy bostonite and upper two feet with com- pacted material. In areas of knows or suspected contexination, treated cament groat skall be used in place of comparied cutfings. D. CATHODIC, Fitt bole above anote zone with concrete
Restantional Photosofts Number of Borlags <u>2</u> Noclaim Note Clameter <u>3</u> In. Depth <u>18</u> ft.	placed by transfe. E. WELL DESTRUCTION. See attached.
STINATED STARTING DATE $\frac{3/12/91}{3/13/91}$	
The set Alamodia Country Ordinance No. 73-64.	Neground - Marian ton ton Dute 8 Har 91
	121989

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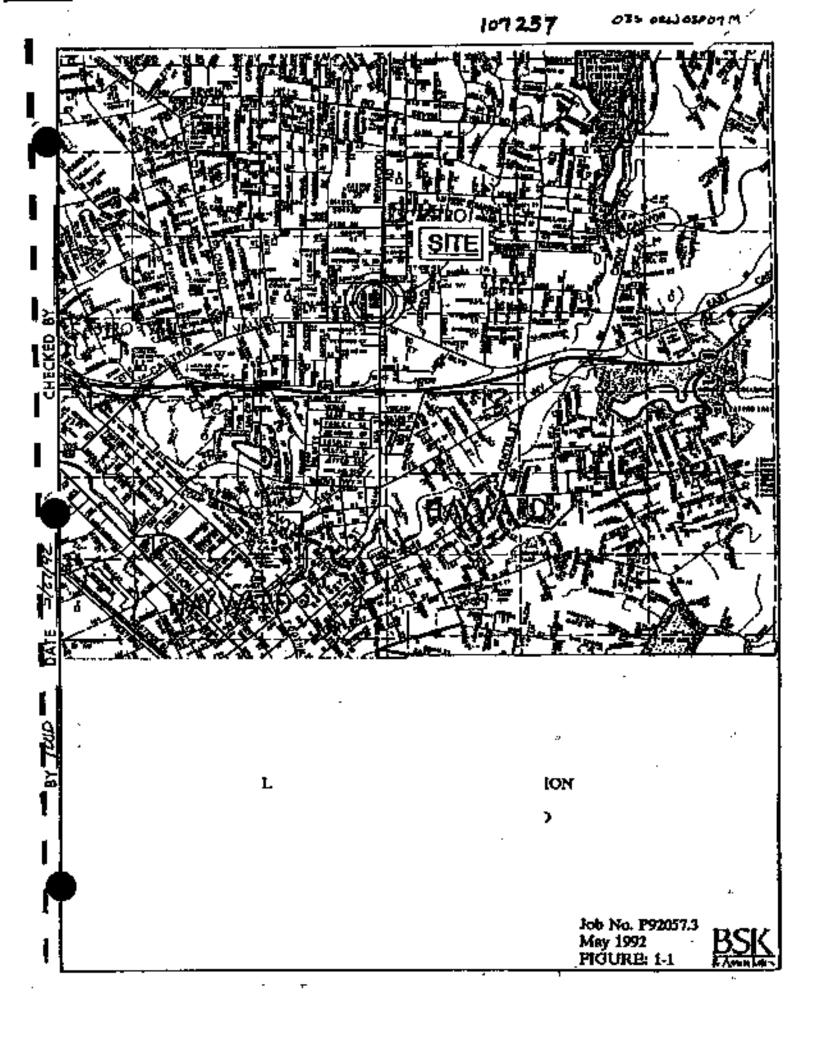
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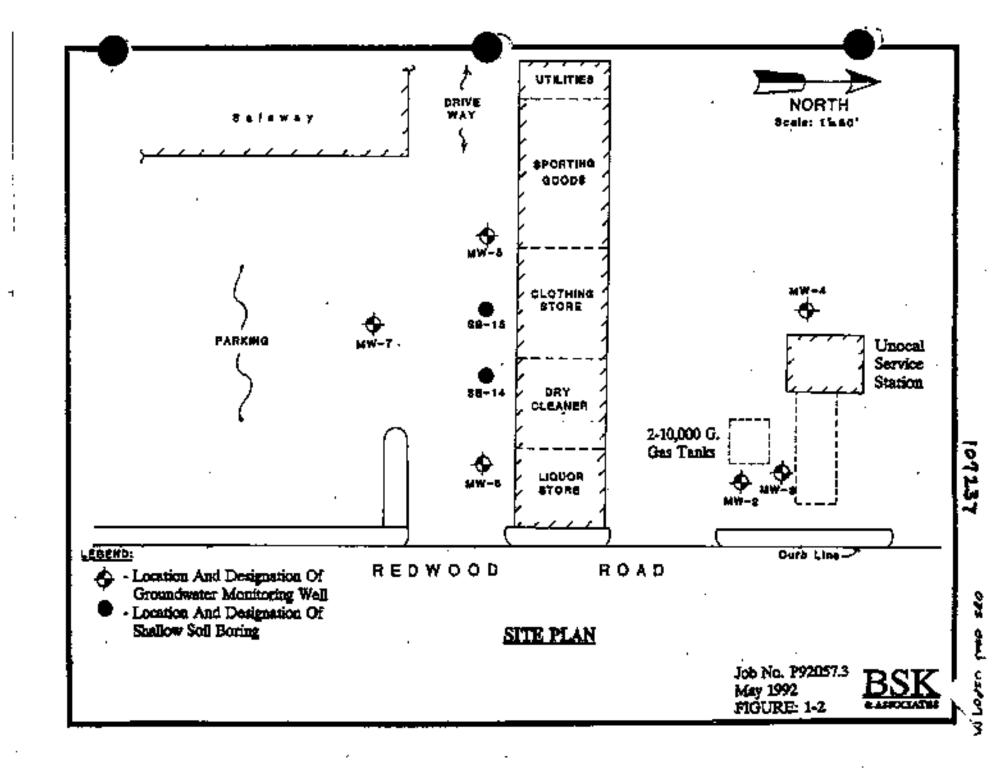
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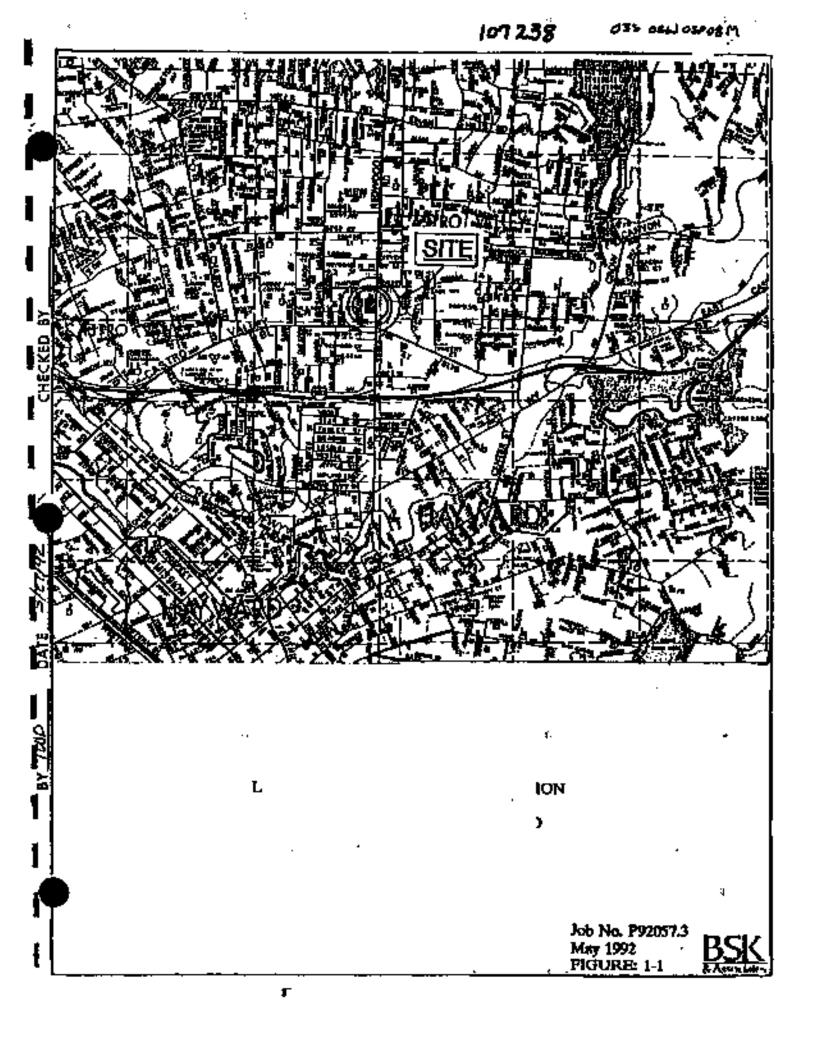
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

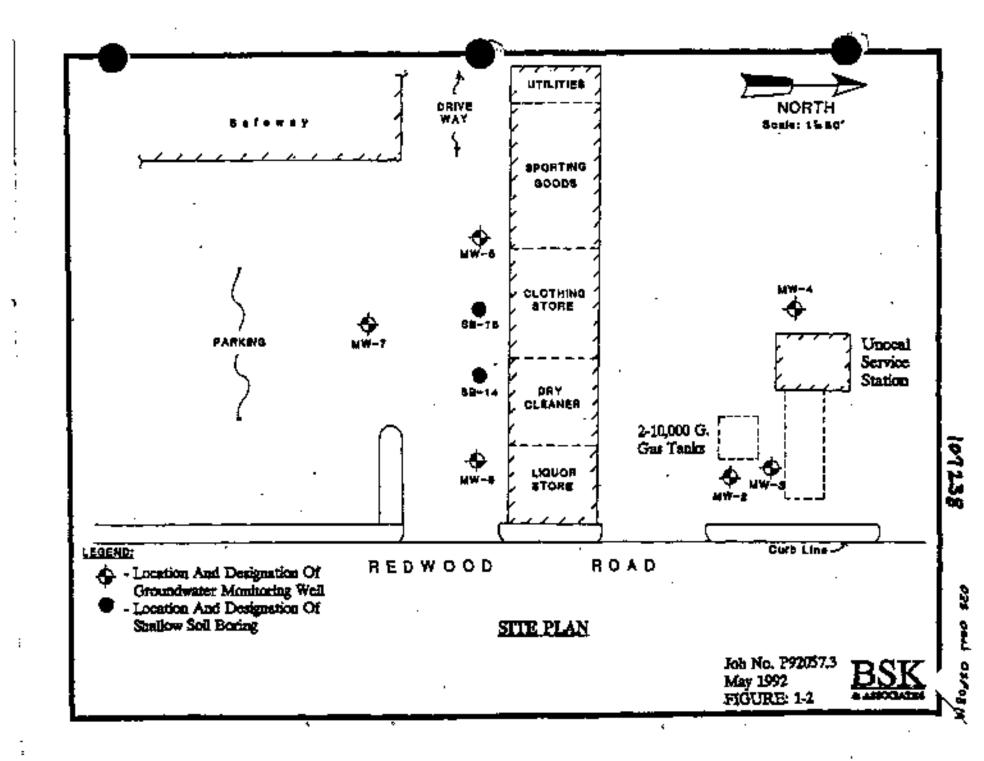
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)





STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



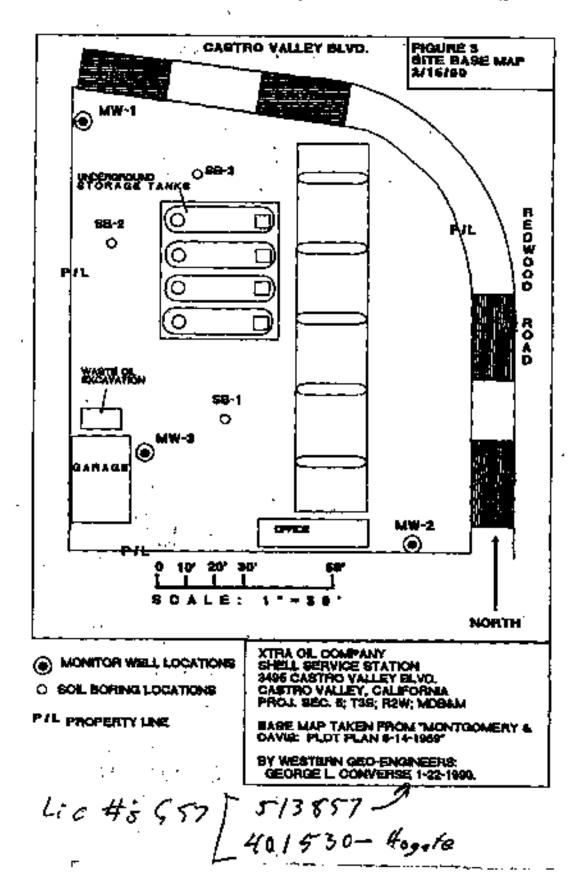


STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

304835 A-

35/2W3P1-2



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304385A 35/2W 3P1

WEGE WELL CONSTRUCTION LOG

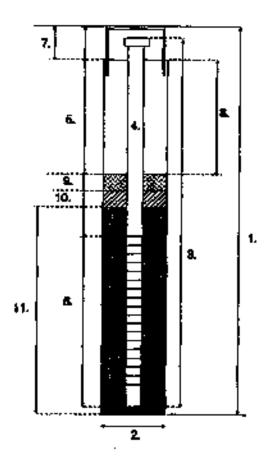
PROJECT NAME XTRA GAS-CASTRO MONITOR WELL NUMBER MW1

PROJECT NUMBER _____ TOP OF CASING ELEVATION 175.00

WELL TYPE MONITORING WELL (water)

REMARKS: <u>10° of 4° diameter sch. F480 slotted PVC casing: 9 feet of 4° diameter sch. F480</u> blank PVC casing 6 bags *3 clean Montersy sand; 1 bag *2/12 clean Montersy sand; 2 bags next cement; 1 water tigtu locking wait cap

TYPICAL MONITORING WELL



WELL CONSTRUCTION

- 1. Total Depth of hole <u>29'</u>
- Diameter of boring <u>10"</u>
- 3. Casing length _____
- 4. Diameter of casing. 4"
- 5. Depth to top of screen 9
- 6. Length of ecreen <u>10'</u> screen interval <u>9'-19'</u> screen type <u>machine rut</u> screen size <u>9.02'</u>
- 8. Beokilli meterini <u>1.6-5</u> sasi materini <u>nest cemeni</u>
- 9. Upper seal______seal material______
- 10. Lower seal 5-7.5 seal material 2/12 Monterey sand
- 11. Annukue <u>7.5-19</u> meterial<u>#3 clean Monterey sand</u>

NOTE: Each well constructed with poly-vinyl chloride (PVC) casing with invested bottom cape and invested top cape. Also, PVC elsent cleaned before constructing each well. Traille boxes are water tight and looked for security.

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304335A

35/2W 3P1

BORING: MW1 DATE DRILLED: 2/14/00 SAMPLE INTERVAL

BORE HOLE LOG

n 4

WATER

<u> </u>						PAC	<u>e 1 of 1</u>	
PROJ		- \8-ÇA	STRO	VALLEY	GEOLOGIST: M. Thomas	TOP	TOP OF CASING	
LOCA	TION	3495	Casiro	DRILLER:		AL DEPTH		
	Redwood Road, Castro Valley, California B. Hogkie Jr. DRILLING CONTRACTOR: DEPTH TO						207	
HOG		EXPLO	RATIO	h: In drillung	DEPTH TO WATER: Approx, 16***	CASENCI: 4" to 19"		
REMA	RK9	10° h		Downered by a B4C				
100	Mobile drill rig. Soli camples collected w/ 2" CA standard campler connected to a 140b.							
	2		No de la			ß		
	<u>لر</u>	OWS/F	5	50L D	ESCRIPITION		REMARKS	
DEPTH	SAMPLE	ГО На	2	UNIFIED SOLS C	ASSIFICATION SYNTEM	CHUHIC		
ö	ц С	<u> </u>	<u>₹</u>			Ē		
			1	4" adphall surface	•	:0,000		
₽.	M	1.	\$-70	Class dark black	with minor sit , firm,			
[•	•			dry, modern	ile odor (OL)			
10-	77	16	888-	Sili brown with	moderale cisy, firm, dry			
	10		. APP	strong gasel	ne odor (ML)			
15-		19	16-20					
"¥₹	10		10-20 PT-14	Glay: brown, with timm, dry, ne	moderate sit, semi-	TIIII	-	
207-		24	10-20					
~1	70	-	10-20 PPTM	City: brown, dec wet, no ods	reasing clay, with sit, or (CL-L41)			
	!							
							l l	
			•	Indicates state during drilling	r encoundered procese		ł	
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				standerd	in 60 ppm geoline			
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

35/2W 3PZ

WEGE WELL CONSTRUCTION LOG

PROJECT NAME XTRA GAS-CASTRO MONITOR WELL NUMBER MW2 VALLEY, CALIFORNIA TOP OF CASING ELEVATION 176.94

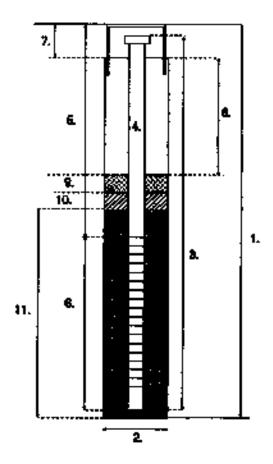
PROJECT NUMBER

___ DATE COMPLETED _2-14-90

WELL TYPE MONITORING WELL (welco)

REMARKS: <u>10' of 4" diameter sch. E480 stolled PVC casing: 5 teel of 4" diameter ach. E480</u> blank PVC casing: 6 bege *3 clean Monterey sand; 1 bag *2/12 clean Monterey sand; 2 bege nest current; 1 water tight locking well cap

TYPICAL MONITORING WELL



WELL CONSTRUCTION

- 1. Total Depth of hole 18
- Diameter of boring <u>10⁴</u>
- 3. Casing length 1#
- Diameter of cealing 4"...
- 5. Depth to top of screen 🖺
- 6. Longth of ecreen <u>10"</u> screen interval <u>8"-19"</u> screen type <u>Austine at</u> screen size <u>0.02"</u>
- 8. Backfül meteriai <u>1.5%</u>
- 9. Upper esel_____
- 10, Lower seal <u>4'-5'</u> seal material <u>2/12 Monterey send</u>
- 11. Annatus <u>6'-16'</u> meterial<u>93 clean Monterer sand</u>

NOTE: Each well constructed with poly-vinyl chloride (PVC) casing with threaded bottom cape and threaded top cape. Also, PVC steam elected before constructing each well. Trattic boxes are water tight and locked for security.

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

WEGE WELL CONSTRUCTION LOG

PROJECT NAME XTBA GAS-CARTRO ___ MONITOR WELL NUMBER MW3

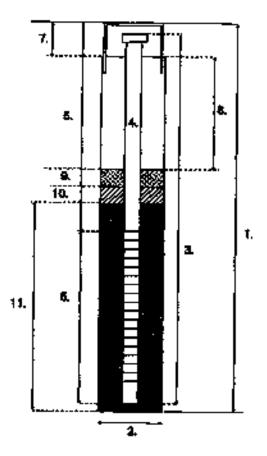
PROJECT NUMBER

- TOP OF CASING ELEVATION 175.00 _ DATE COMPLETED _2-15-00

WELL TYPE MONITORING WELL (water)

REMARKS: <u>10' of 4" diameter sets</u> F480 eloited PVC casing; 8 test of 4" diameter son, F480 blank PVC casing; 4 bags 18 clean Monterey sand; 2 bags 12/12 clean Monterey sand; 2 bags nost cameri; 1 water light locking well cap

TYPICAL MONITORING WELL



WELL CONSTRUCTION

- 1. Total Depth of hole, 18
- 2. Dismeter of boring <u>10°</u>
- 3. Casing length <u>18</u>
- 4. Diameter of casing 4"_____
- Depth to lop of screen 4'
- 6. Longth of screen <u>10"</u> screen interval <u>8-10"</u> screen type <u>mechine su</u> screen size <u>0.02"</u>
- 7. Surface seel______
- 8. Backfill material <u>1.F-4.s</u> seal material <u>neutroment</u>
- 9. Upper seal_____
- 10. Lower seat 4.5-9.5 east material/2/12 Monterey sand
- 11. Arreaus 9.6-18.6 material#3 clean Monterey and

NOTE: Each well constructed with poly-vinyl chloride (PVC) casing with threaded bottom cape and threaded top cape. Alea, PVO elearn cleaned before constructing each well. Traffic boxes are water tight and looked for security.

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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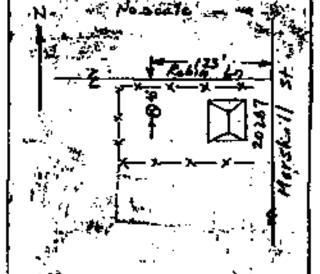
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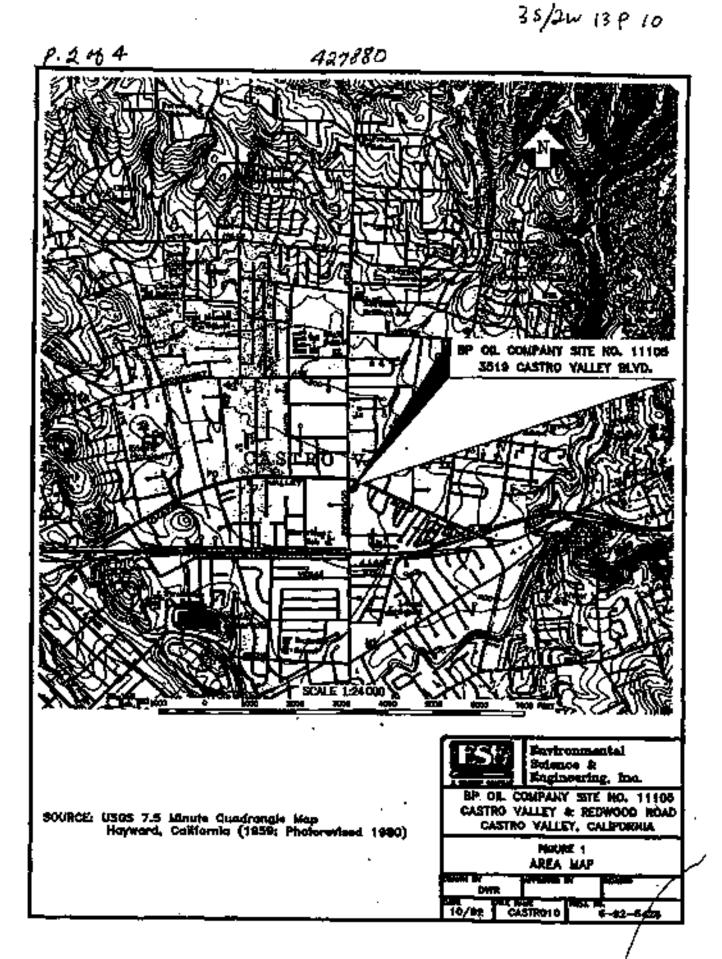
RESOURCES

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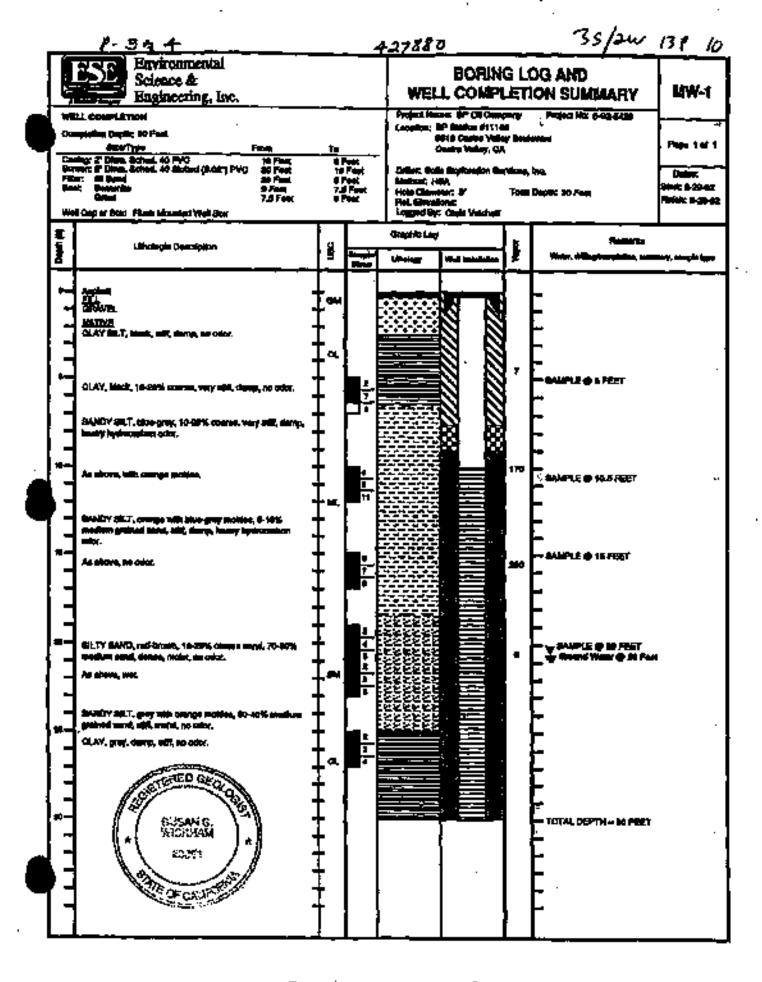
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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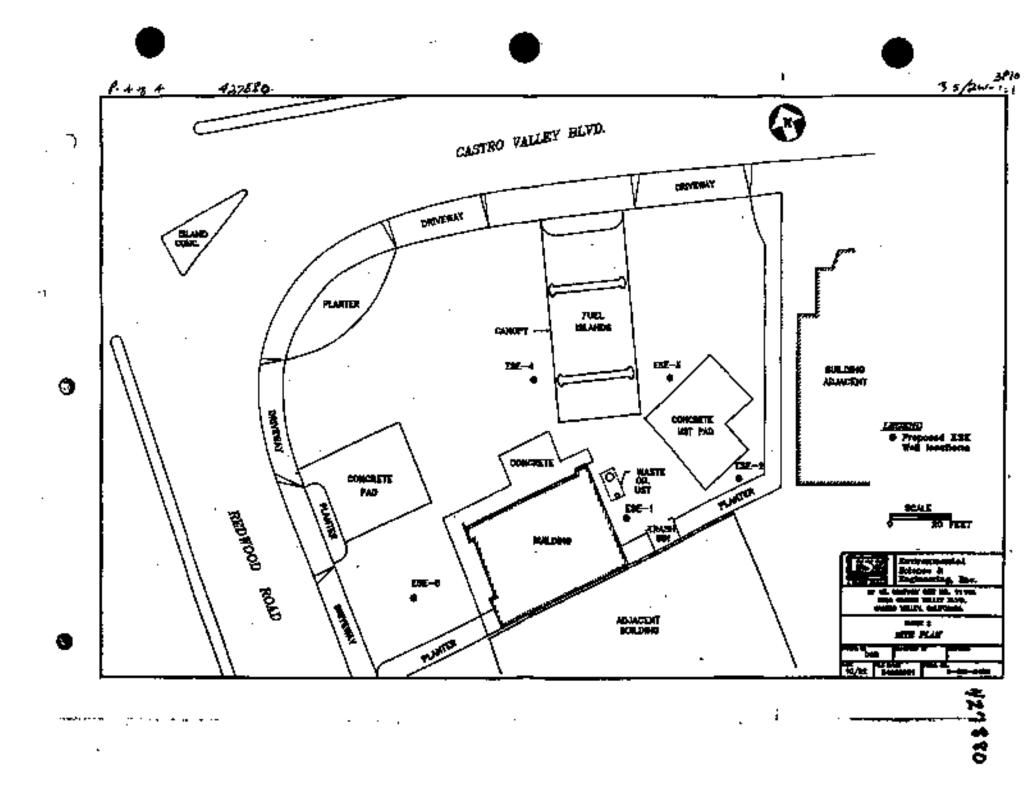
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

Hul	Developmen	t Labs.	Inc. 12+20-45	
661 Kings Row San Jose, CA 95112 Attention Me. Gail Williams	EVINE 2 AUX	DATE RECD: LAB HO: P.O. HO:		N.
Total Petroleum Fuel Bydrocarbo	<u>ONE Analyžis</u> : LOCATION	164; campled	1 12-10-85	•••
Sample I.D.	Gasoline		· ·	
154 - 10°, sandy goil	none detected		· · · · · ·	
164 - 15°, sandy soil 164 - 20°, sandy soil	none detected	ATV-		
164 - 25', wet soil	38.0 pp		TIFED LITEIS	2
Terro 3940 Carto Valley B	P Castro Valley	Approved by: STATE OF	California Lite stavice	/
The determination was done by an ultra high performance or		-		
•		p. nut	d .	-

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500 LAURELWOOD, SUITE 14 · SANTA CLARA, CALIEORNIA 95054 · (408) 727-3313

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MONITORING WELL - DRILLERS REPORT

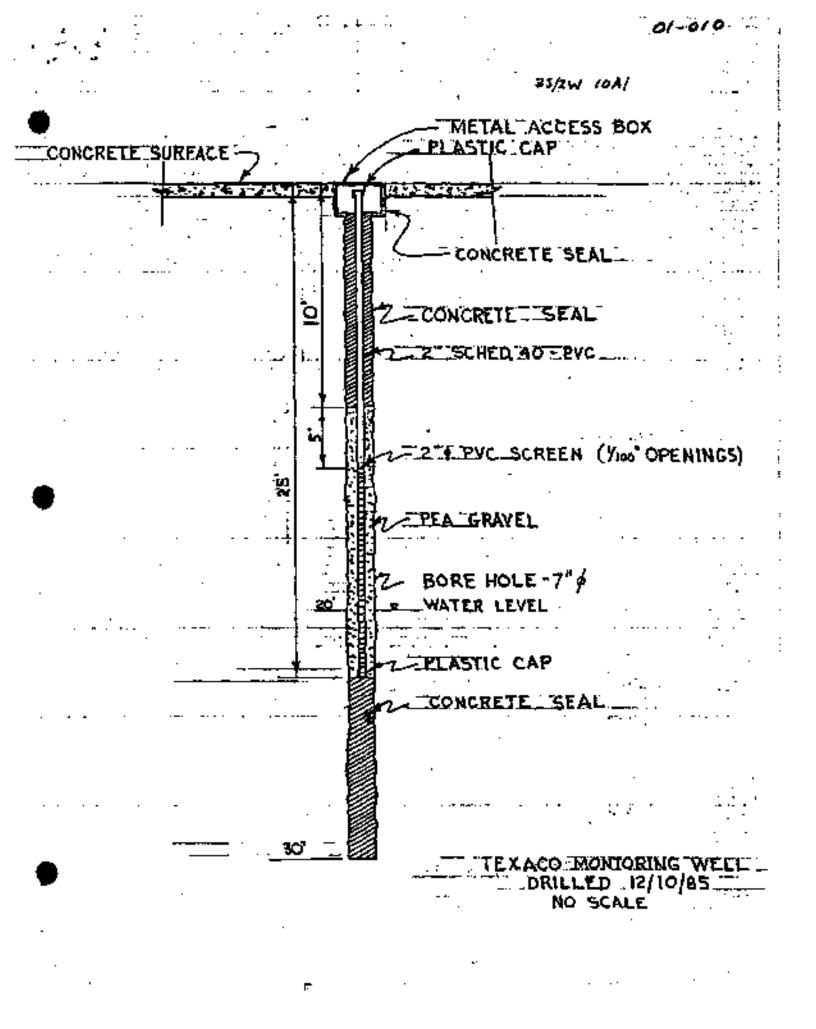
Perm 852Lİ SS∕Z₩ 10A OWNER: TEXACO LOCATION OF WELL: See attached map. DATE DRILLED: December 10, 1985 DATE COMPLETED: December 10, 1985 TYPE OF WORK: New Well PROPOSED USE: Monitoring (gasolene) EQUIPMENT: Auger GRAVEL PACK: Pear 7º die. drill holer Packed from 13' to 25' CASING UNSTALLED: From 0' to 15'; 2" dia; schedule 49 PVC PERFORATIONS: From 19 to 25'; Siot Size: 1/100" WELL SEAL: Senitary Seel from 0 to 10; Concrete. The drill hole from 25' to 50' was backfilled with concrete. WATER LEVEL4 Initial 22'; Final 20.

WELL LOG

0 -	3*	AC
S* -	ger -	Blue base rock
9° -	- 4 *	Gray-black clay; Fuel odor
₩ -	ተ	Brown clay, stiff; Fuel odor
71 -	10*	Gray-brown Clayey send; Puel odor
10" ~	12*	Brown sand; Fuel ador
12' -	154	Brown clay; No Fuel odor
154 -	164	Brown clay; Fuel odor
18 -	30*	Pine sand; free; Fuel odor
20' -	32'	Fine sand; some clay @ 27; Fuel odor
<u>92'</u>	35'	Fine sand with clay; Water; Fuel odor
25'	30	Brown clay

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Well Driller: Winter Petroleum Service, Inc. 681 Kings Bow 846 José, California 95112 (403) 279-2570



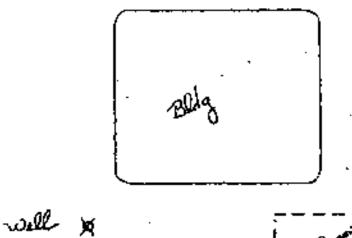
35/ZW WAL

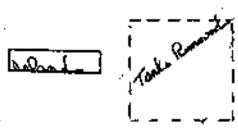
0/-6

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FEROLEUM SERVICE, INC. computer services Ucensed Contractors—All Work Guaranteed Pumps, Hoists & Compressors Meter Exchange, Hoset, Belts, etc.

10 January 1986





Castro Velley Block.

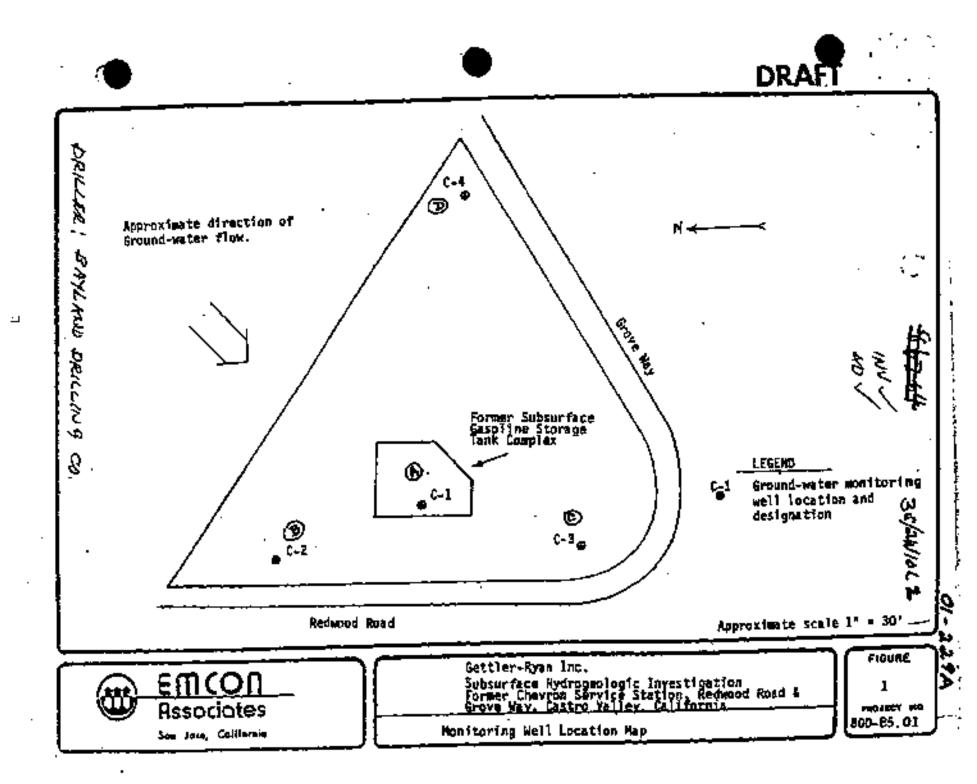
g williams

54N JOSE 661 Kings Row (408) 279-2370

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SAN TRANCISCO 50 Shetwall Street (415) 621-8275

SACRAMENTO 2230 Collen Siren (916) 922-1334



-35/2W/012 01-2226 INV KOV #86264 OATE 10-01-140 PROHIDT No. 20-15-BORING HE оль. С-:/ ***** LOG UF 1 Red GLIENT Cr. R. CHETCAN LOCATION AND DUDOO ; GEORE CASTAN VIY. EXPLORATORY BORING A а**г**., MALLER BANKAND LOGGER BY TOL ł ANGR 77 $\frac{1}{2}$ Field Maailon of borings-Disting mathed ... 1 ÷ • · · 24 Hole (I.a. Caning Installation data SLOTTED 3' PLC FEM 30 T いたいでものであって Aster Contraction *CI PRETS SOUP to SUPPACE, SAND PACE IN TROM BENTENTE 10 T FT' CONTACT TO SUPPORT TO M leoneth Browned Elex 471:34 ------ 16.47 ITU 150 165 1.5 Water lavet un 113 Ē However, 1 11.44 A STATE 1 1030 ļ Time . ÷ 10-1-0 6146 10-1-86 Osle 1 -3 1 ø 10.00 DESCRIPTION ۰. ۰. λ. 2 COMENSAND IN SHEY SAND FOR DAME BROWN (104/2,47 20:30/2 FORT: FINE TO COMPLET SAND, TAKE CARPEL: WOOD TEACMENTS, MEDIUM DENDER DEY; RIPD 26 '**D** (0/17/12)V-C ٠, (9 Z ٤. ¢ りアイ 6 C9771 MAST; STRANT GASAINE COOL 67919 'n 1.1 ŀ CHINGE IT ILFT. 12 Π SAND, CLAY - FROM LEDED! OLIVE GEAY N (SV, 4/1); MOIST, STRANG CATOLAR ODD SPT FLAT GERINED: TRACE MEDIAN CHAN 4517 Dt-L ග $\lambda \tau$ ģ 7 (PD) 1 00 SP : CLAY + UP (STIPF , ALA FINE +D COMSE SEALNED) LOSE W. . Жай Ŕ, 3 CAR W-L യ PJ9 PT SP AND SW3 ADAC: P 100 WET; STRONG CARDUNCE ODOC 3, 2ł 2 ۶ŧ 1 AL Ì 2 PT: SP. Swi VERY DENSE: FOURT 1995 ふろう マイ 3 1007 16-10KT ORAL. 17236-1 ħ. 1 (24 PT) AR STIDE FINGS : SHIT THEE GAAVELI NO PRODUCT OPONE 2 140 707 Ъ 2 BOTTOM OF BOUND AT IN POPT. ſ Т ٩ ÷ PRELM ĩ 10

	# P6 26×	35/2W/0L2
	O WELL	DETAILS 01-227A
-	PROJECT NUMBER	BORING / WELL NO. C-1
ZN		n. CASERS ILY. TOP OF CASING ELEV. 97.3
W	COUNTY_Alameda.	GROUND SURFACE ELEV.
Entcon ,	WELL PERMIT NO	DATUM_Project
	<u> </u>	
	G-5 yeak bo	x (Std.)
A STATE OF A		
		EXPLORATORY BORING
		a, Total depth
		b, Diameter <u>8</u>
		Orilling method <u>Hollow-Stan Avser</u>
	╽╌┥╝╞╾╴╎╴╎	WELL CONSTRUCTION
	} <u>}</u> . ⊧	c. Casing length
		Material <u>Schedule 40 PVC</u>
		d. Diameter
		e. Depth to top perforations 10
1 1		f. Performed length
		Perforated Interval from 10 to 30
- 111		Perforation type <u>Machined Slot</u>
1 }		Perforation size <u>0.020 inch</u>
		g. Surface seel
		Seal material <u>Concrete</u>
		h, Beckilli
	1993年1月2日 1997年1月2日	Backifii material
		L'Seal
		Seal material <u>Bentonite</u>
		J. Gravel pack (30 to 8 ft.)2
		Pack macerial <u>Coarse Aquarius Sar</u>
	1222 - 1243 1	k. Bottom seal 🛛 🔜 🚽
		Seal material
		Seal material
		Seal material

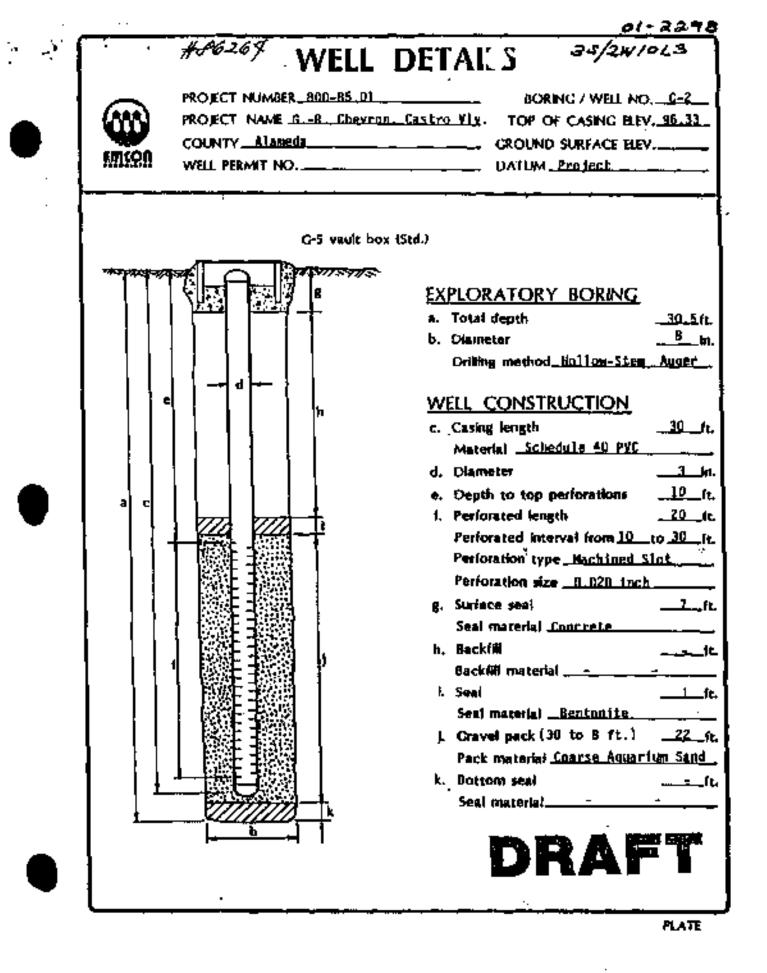
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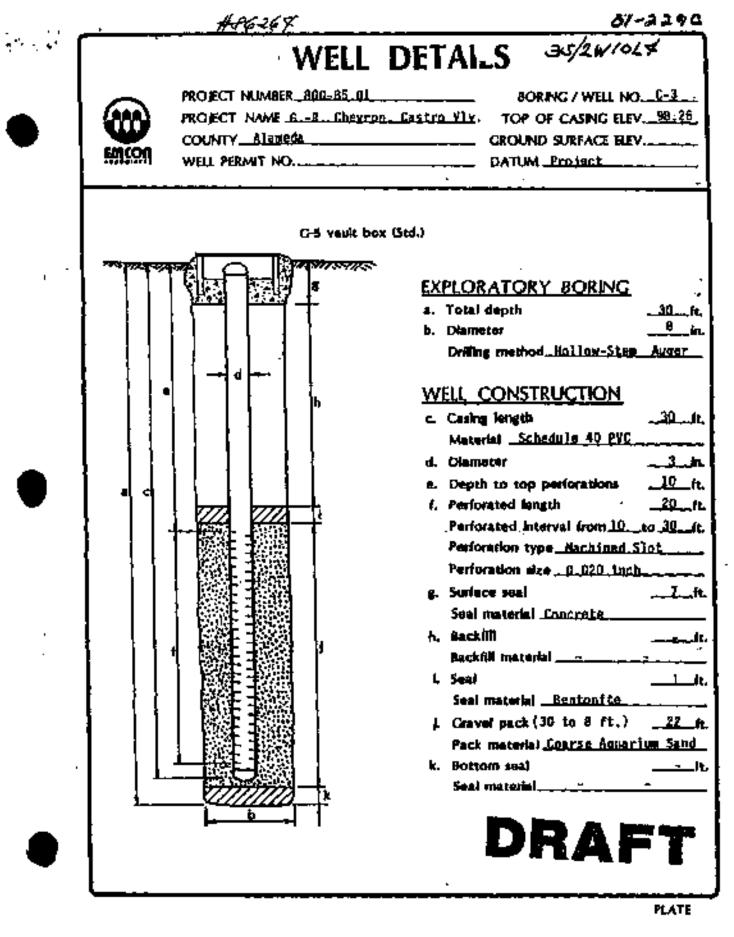
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W/V NO / <u>34/20/104361-225</u> LOG CF PHONEOT IN TOTS A DATE 10- 4- FE BOR MAG H C-2 LOCATION PEDNOD GRAVE CANTON YU Hent_ EXPLORATORY BORING LOGARD BY EBL ONLIN 201400 EWCOL **H** . Í DITING BOTH BORE BUILT **1**1 até tecetion el borjeg: يتعفن ę۳ Hole dis. ١ i. Contra lastations and Sumer 3" Pro: INSTITUED TRAM 30 ++ 17 PT; SOLID ++ SUKAKE: SHO WELL ID 8" BENTOM TE to 7 FT; CANCERTE Value PRIJECT Å around stor. \$4.32 TO SUMPLCE .1 Water level 15,47- Ret 22 . Ē 1577 Į.į ł ij DayA A These Į. 10-1-1 Dete DESCRIPTION SHO? CLAY-FILL g_{ℓ} 2 1 Ċ. CAYEY (AND , DARL BEANN) (1042,3/3); HAR KHASTICATY FRANS: BONK FANE TO COMPARE STAND: 5-107 RATEY & MODIL CARNEL; MOUST; DENSE 10 (054/ STIFF) NPD. Y 6/##3 |**X**-T 775 \Box 07 6 ĩ Posts -SILT, SAME THERE DEDGED SOLIVE GAME (SY, US) MOIST . FAINT PRIDLET ODDE SHIT & SHIT 9/11/2 X-L ഹ 20 h۵, THE SHOD STIFE SAND: THE GENNED: VERY DENSE. 2 Χ. 12 L 24 1/4 íÐ, 110 Ľ. 5/8/10 12 (1007) CLM, SUT, SAND- THTERREDORDS DARK REMAY 13 (6) Ъ Z WET. NO REPORT COOR! CLANI (P14, 3/3) THEN THE SAND; HEAVY I AN ONDE STATISMA, STAT. SILT: 10-2010 PLACE SAND; STIPF: SAND 5-18 A Э FINE: FINE GRAINED DENSE g 11672 112-1 \overline{D} 10 5 @ 24 FT; No PROVET NOON Ľ **北宋**茂 SAND DALL GROW (257, MALL 5-10), FUNTS; FINT TO COMPLE SHOD, S-107, FUNTS; CARSE GRAVEL: VERY DEALER WET, NED. COMPLET JE C 62.12 10 Ľ, 20. 647 ŗ, BOTTOM OF GALING AT SOLE PT. 1 ۲ . ; - MINARI J Ģ ı ÷., . .

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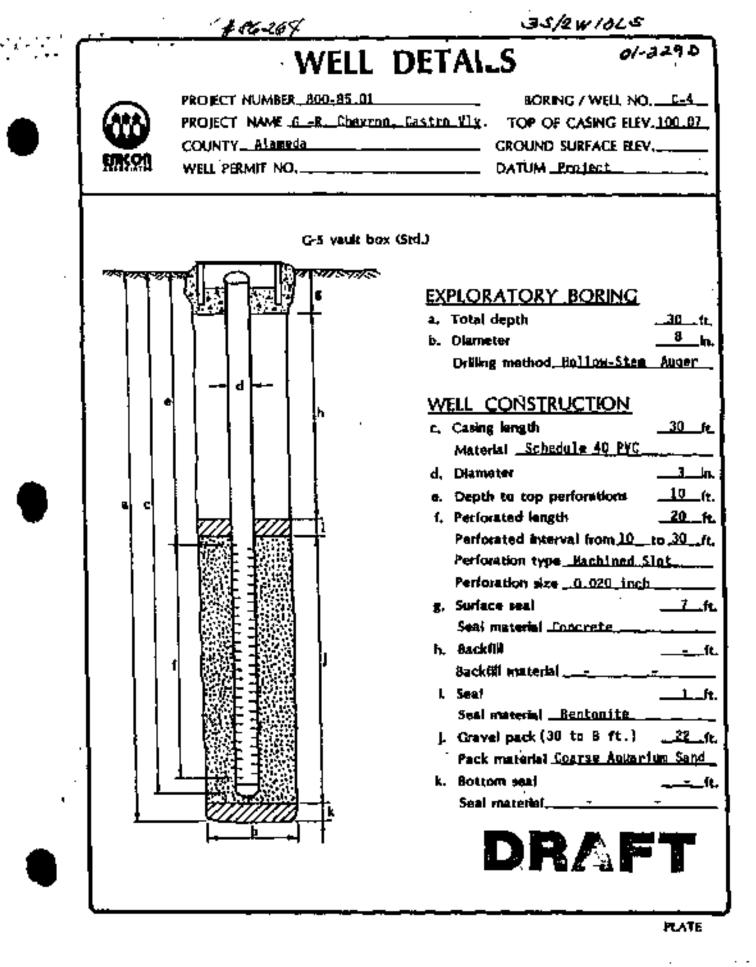


AVI AD! 355/2W/0L7 20 CT A-16-264 PROJECT No. 200-85. .DATE 10-04-86 BOAING No ļ LOG UF CLIENT G. P. CHEWOON ĺ, LOCATION REGINCODS GRANE CASTED VOY EXPLORATORY BORING Sheel. LOBERO BY. ESL__ DANLER_ EMCO Crilling method 1-5 AVER į. Field furntled of bering: Ser. S GRAVE Hall die 64 1 SLOTTED S' DUC MEN Cooling installed lies data 30 to 10 PT. SHID TO SURPACE; SAND DEL to FET. BENTONITE to 7 ST. GRICLETE TH ll neu SURFACE Grand Elen 446 26 17.75 Wutter Iprol . Time Ξ İ Modian Tari yana TBF l ij . Į. 10-1-92 Date DESCRIPTION SHO, CLAY, CGAMEL- FILL ŧ, Ċ٢ ¥ 371578 122-0 Q. 4.5 1002 6 S¢. 2 e. CLAYEY SAMO; (MCK_ YELLOWISH GROWN (1942,14); BO-412 Albon ANTIGITY MARS FIRE TO CONST SAMP. 10-202, ADAT 30 MERICA GRAVEL: VERY DASE. _ MOIST; N.P.O. 70ৰা গ 102-1 3.* jų, 1 12 SATE DAY LEY, 1/2); 5-101, FROM FINE SOAD; TRACE FINE 1. COMME GRADEL, DENSE; WET: STUND CASELON ODD J۴ st ... 211/10 12 0 73 Г 17. K, ٤ R SAND- THERE REPORTS VELOWASH BEANNING ONE 5/0 11 DENSE WET NO FRODUCT SOTORS STUD FINE 10 COMMENT GRAMMED, THEE FINE GRAVELY SP. 6/2/3 DP-2 State Barry रष्ट ъ 1006 FURE GRAINED. 24 ansin (12 -C 4 79 FT; WAY DASC; NPO. त्र è ETT PT; No PARINCE ODBLI SILT: BROWN (1142, 8/3); 11-20% PARE 1.74 102.2 υ 15 30 SAND: VERY STIPPS WAT, KIPD. 100) 3 Berrown OF ROMME AT 304 ET. (Å) Ŀ. PRELIMINARY t ١. _ - --TE



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35/2W/015-01-7243 INV / NO / *486-267* PROJECT No POP ST DATE 10- 0. FC SCRING NE LOG UF CLIERT G.R. CHE IRON ራዛ LOCATION BYOLGOD ; GAME, CANTER YOU. EXPLORATORY BORING Alternt 1 Π. LOGGED BY ERL DULLES BAKAND ŀ EMKO of __ Orilling method H-5 AVEEC · . . ! Field Jacobian of Borleg: Gent Heir die. Chaing Inscallation data SCOTTED 3" PAC FRAM 30 19 <u>بر</u>عو 10 FT, SOLID to SUMFACE; SAND PACK 10 JFF: LEWINNITE to 7 M. CONDER O Contern PLATELT to SUMFACE. Ground Elen (00.07 (7.•2 Water Isee) . Ť Thursday. 11-1 (99 Packel Tore years TOP i H 1020 Table 1 Ĩ 10-1-10 Qu i p PEECRIPTION SAND & GARAGE - C.AY - FU 2 CLAY, DARK YEU-DUTILY BESTIMICIONALY/4) Y α This Re-E TDS-JOZ CONTRACTOR SHOT STIFF, MOIST, NPG, Par 45 hazs e r de la composition de la comp L COMEN SAME DAVIL VELLOWSHE BROWN É Sout 10-22 For a Court GING WELT STIFF, MOST! 102-0 25 11/2/3 \mathcal{D} Þ 1002 NPQ _ Iz)) QUYPE, STIFT) SHOP, NO. 20/05. 12 UR-L WWII $\overline{\mathcal{Q}}$ 15 í۴ k C IT FT VERY STIPT; ATT, NIPO 79 1.0 674 ____ 36 11 SAND TO SILTY STODY YELDISK BEDING (NOGSILG); S-124 UN ANTICHY FINE, FINE CREANSED; TEACE COMMENT COMMENT, VIEW ĸ 1.19/20 12-1 r* ٠, DENSE, WET, NO 1001 x ą 11 72 2274 FT. DAVSE, NPD. ٤. <u> 78</u> 150 769 16 ROTTOM OF BORING MT 30 PT : PRELIMINARY

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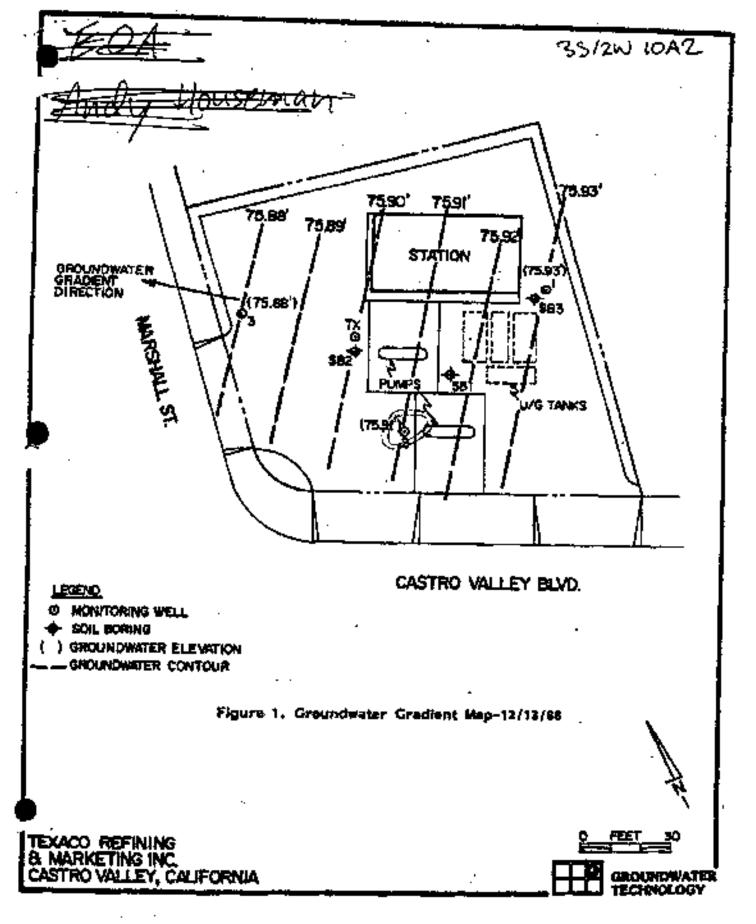
LAKESHORE FINANCIAL 35/2W 1044 3940 Castro Valley Blud Castro Valley

01-450 £

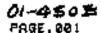
APRIL 8, 1987 BOTH Wells Fill MAD. CAPE WITH CONCANTE, CAPATTHE OXPTH & 7' BRIOW BOTHISTIN 31114 GRHDE ies pres - APPROKING ATALY TO ľ, 39⁵⁸ τ., Same 3940 12< 5.207 A CASIAL Existing to Ger Lin Inding S'C.L Meder Line Existing 6" V.C.P. Sonitory Sewer to be abondoned Construct 18" V.C.P. Sonitary Se on Line of Existing G" K.C.P. S. Existing Storm Plug Existing EAST CASTRO Work done by. Clark Construction

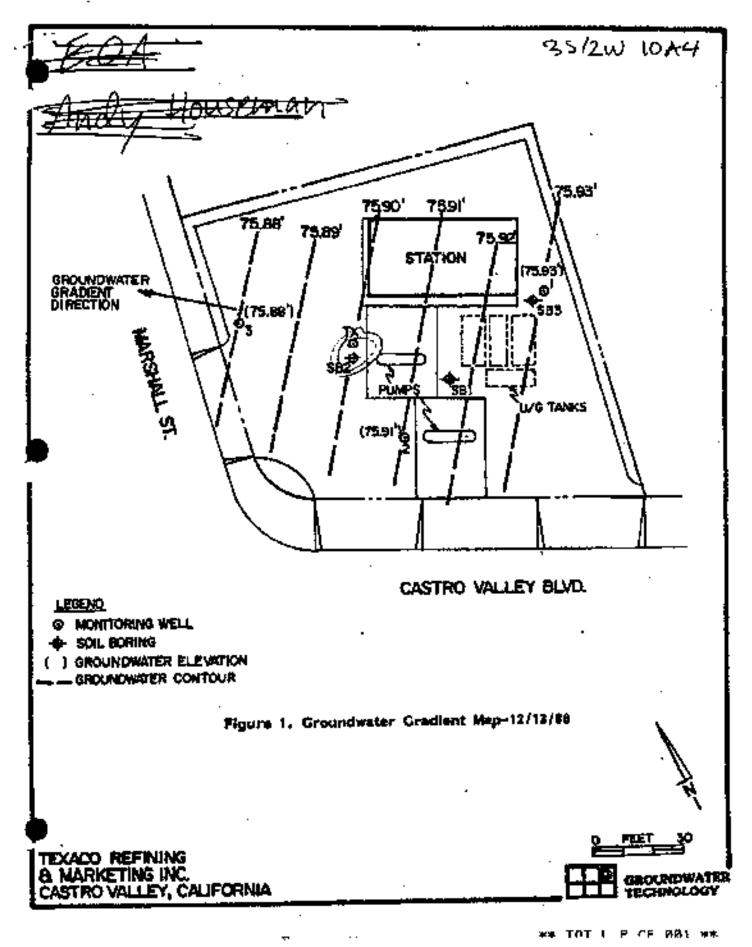
JUL " 6 '98 18:14 FROM ALAMEDA COUNTY PWA

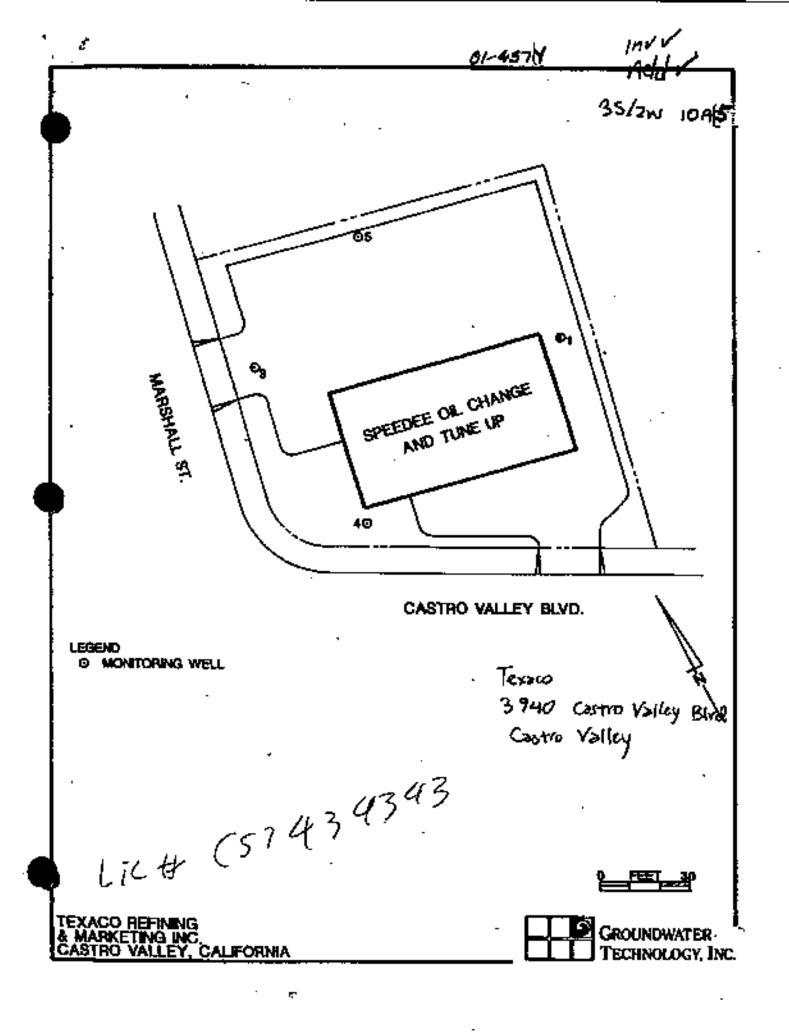
01-4504 PAGE, 801











Location _CHEINO Data Drilled _dd Serfece Elevention Screen: Die .d.d Cheing: Die .d.d Filter Reck Heter Drilling Compony Criller _Chebio	<u>Vy/Iav RJ.</u> 12/00 To 1 No 0 La 1	tel Depth of Nor Lavel In Ngth <u>20 ft</u> 100 h 21 ft 100 h 21 ft 100 h 21 ft 100 h		DI-457 Monitoring Well 4 Drilling Log See Site Amn For Boring Location
Cepth (feet) Me11 Completion	erto Semole	Graphic Log Soil Class		iption re. Structure)
	€ 20 10 10 10 10 10 10 10 10 10 1		Brown silty clay passes, matter at (grades w/ fire sand) Grades w/ since fire sand) Tan clean fire sand (slightly Moast Brown silty fire sandy clay (motat,	α 1. joose, slight polor).

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01-4574

35/2W 10AS

Monitoring Well 4 Project Reseco/Lastro Valley . Dener _Texaco Refining and Hericeting Drilling Log Location _Castro Volley Rd. Project Huster _203 (50 4090 Hell orpletion Sed1 Class **Proh**ic Log See 1 a 83 Cescription EDior. Texture, Structure) 26 ignedes eons fins sand) D. 28 Tan fine sand wet, loose, ? odor? P F Encountered weter 4/03/50 (1630 houre). 30 (grades w/ gravale + silts) 32 -Brown milty claymy fine sandy gravel (web, medium canne, no odor) 34 20 26 26 20 Ġ 洒 38 80 40 42 44 Bottom of boring. Installed monitor well. 46 . 48 50 52 54 5

21/14/1998

Page 2 of 2

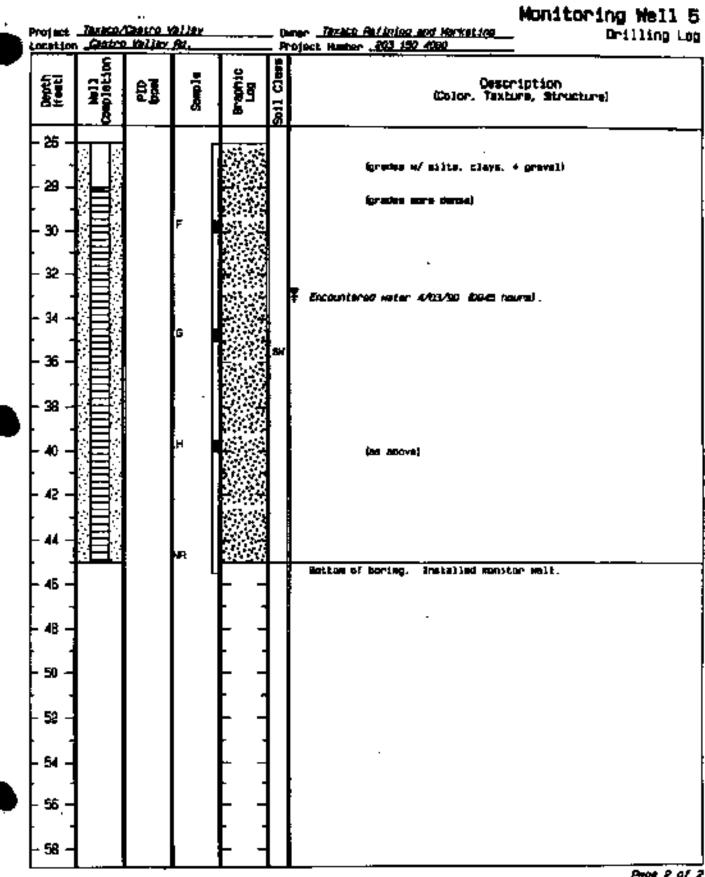
35/21 10A b

01-4572

Monitoring Well 5 Project _______ Deter _____ Deter _____ Deter _____ Deter _____ Drilling Log Location _ Castro Velley Rd. _ Project Number _203 (50 4090 See Site Mip For Boring Location Cate Crilled 4/02/00 ____ Total Capth of Hole _Cift.___ Disputer _/0.5 in. Surface Elevation _____ Water Level Initial _____ St four _ NOTES Casing: Dia <u>4 10.</u>..... Lungth <u>20 / L.</u> _ Type _PHC Filter Peck Heterial Longstar #32 Sand Face Grilling Company Signed Pacific Drilling Drilling Method . Mollow State Augur Log by , State Analysis Oriting Develd Herris Geologiet/Engineer _Allen S. Store_ C1860 Description 罷 Ī 23 ī Color, Texture, Structure) Ï 5" Asphalt over 7" best course. Ô. 0 Gark gray silty clay boost, cadium stiff, no usori 2 Grades light brown þ Tan silty fine send. 54 Light brown allty clay (molat, medium stiff, no other). ໍ້ດໍ 8 Ten stilly fine send felightly moint. loose, no sdorl. Ð 10 12 -14 С formades to no sulti 16 18 D 20 for addes n/ mone \$1315 22 Tan fine to coarse sand invist, 10080, no odor) 24 Ð Е 26

05/04/1980

Page 1 of 2



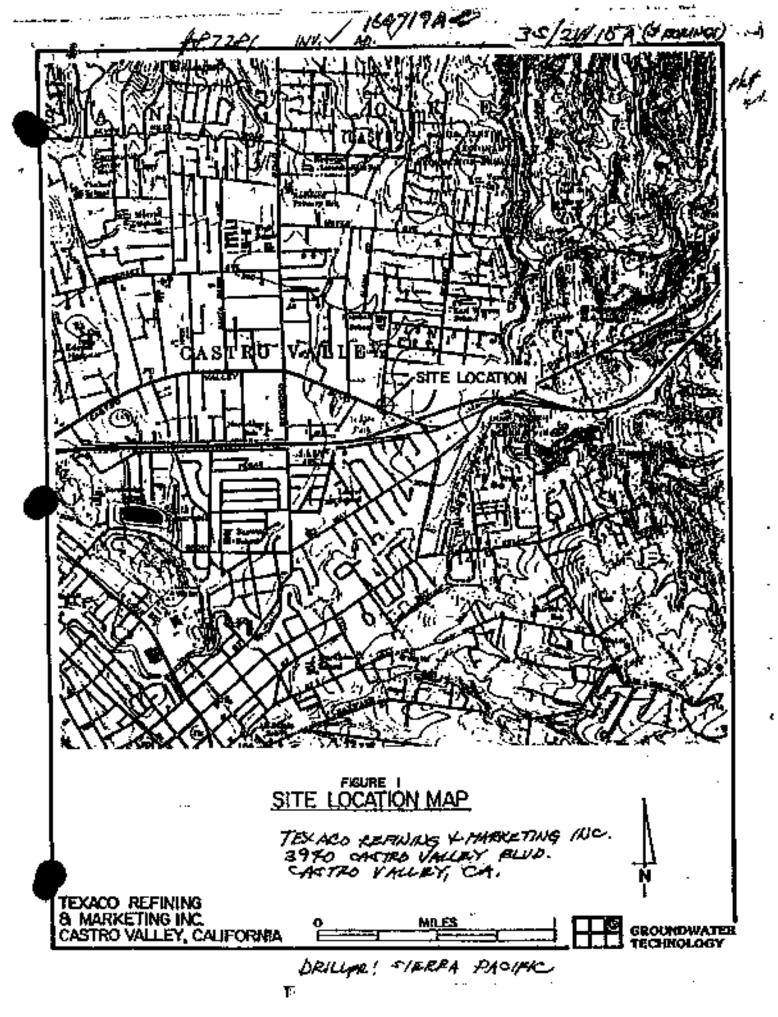
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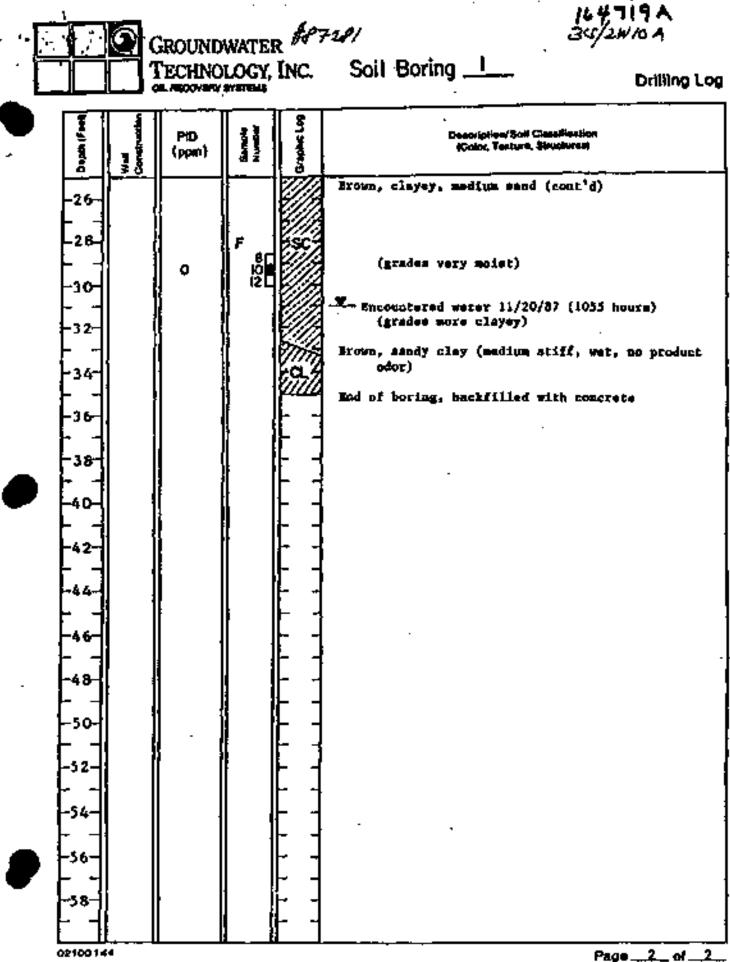
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Lockbon Data Dril Burlace J Scream (Casing (Drilling (Texato Contro Contro Contro Texato Texato Texato Texato Texato Texato Texato Texato Texato Texato Contro Texato Contro Texato Contro Co	22/67 22/67 51ecre_7	OGY, I Val2ex fotal Dapin Mater Level Langth VacIfic	Si Conner . Proyect ? of Hold Linksel	Oil Boring _! TEXASO Refin. 4 Nerket Aumber 203 150 4080	164719A 35/2N/OA Drilling Log See Bits Plan Noise
		PHD (ppm)			Jan Preski	
		0	A 4 1 6 8 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8		2 inches asphelt over 5 Gray sandy clay (medium odor) Yellow, sandy clay (medi odor) (grades yellow-brow	stiff, dry, no product
-12- -14- -14- -16-		0	C S		(grades modium stil (grades mondy)	
-18-	s	0	D B B C C C		product odor) (grades moist) 75(4-00 #	al (medium stiff, dry, no SFEN/NG & MAXIE, /NC. 17720 VAURY RLUD. MARY, CA.
- Z 4	[[▲	o	н с і 2			Page 1. of 1.

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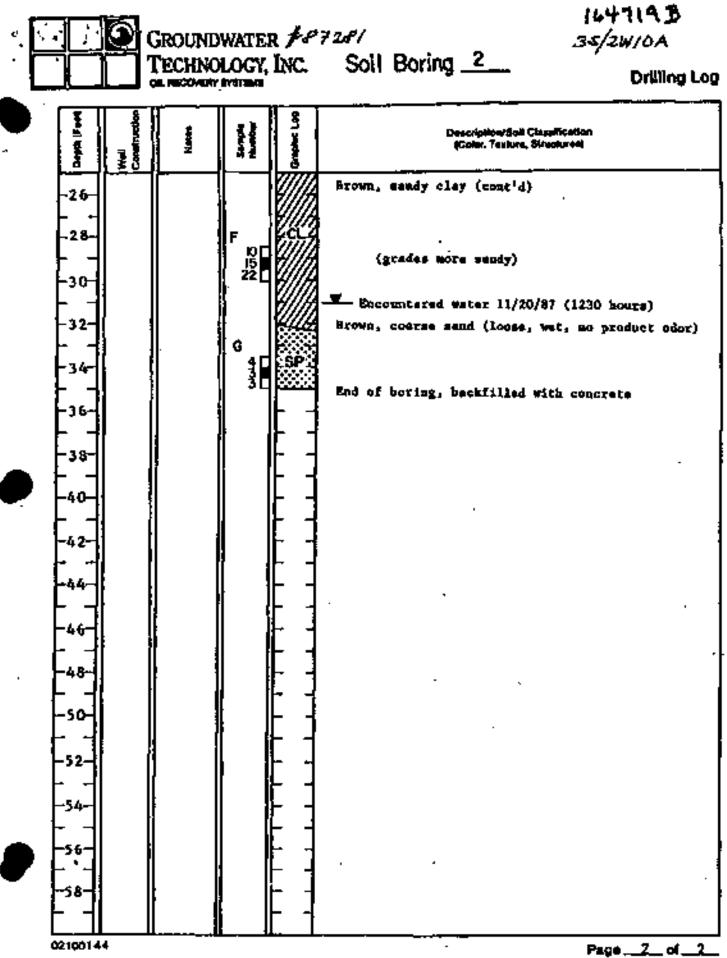
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		<u>a</u> .			1		144719 B
			OUNDW			LP/	35/2NIOA
· [1 1	ŢŢ	CHNOU	OCY, 11	NC.		Drilling Log
_ <u> </u>					Ş	oil Boring _2	Sharph Map
						Texaço Refin, 6 Maxket.	
Ţ.,						23. 11: Dieneer 7:5 JR.	See Site Flan
						31 ft. 24-bra	
						Турет	
						Method Hollow Step Auget .	Hales
	Quiller		byard		Log by	Jan Prasil	<u> </u>
	Durch (Fame	tet Continuetor	kolee		Braphic Leg	Description/Se	Ciperification
•	- 0 - - 0 - - 2 - - 4 - - - - 4 - - - 4 - - - -			А 49 А 49 В 59 Ю С ⁶ 2 5 5		2 inches Asphalt over 5 Gray, sandy clay (mading odor) Brown, milty clay (stiff (grades sandy) Light brown claysy sand product odor) (grades more claysy Light brown, silty clay odor)	a stiff, dry, no product (andium danse, dry, no (stiff, dry, no product
•	-18- -20- -22- -22- -22-			0 5 4 4 E 8 6		Brown, sandy clay (media Odor) (gradas stiff)	A stiff, dry, ou product
	0210010						Peos 1_of 1_

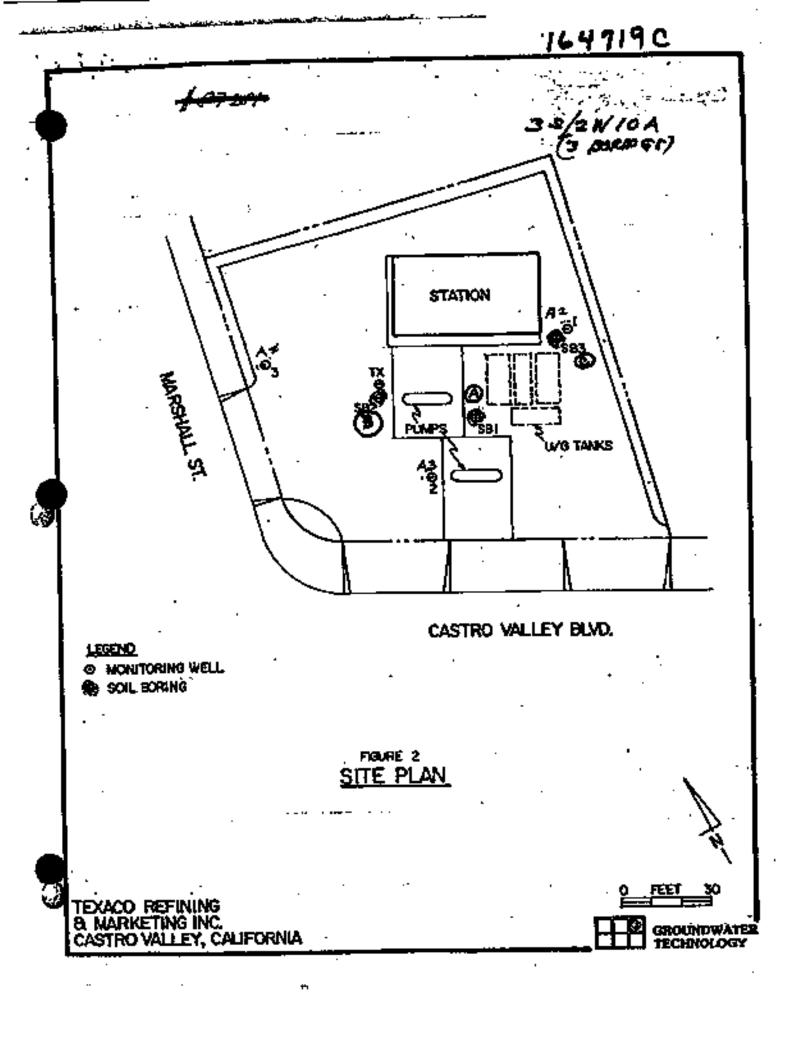
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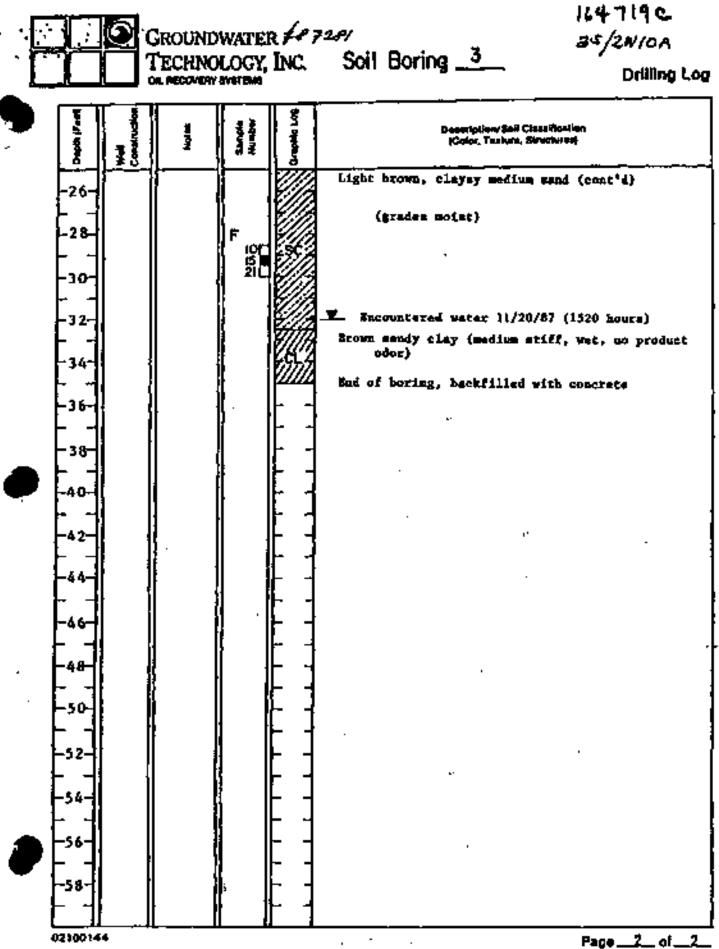


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		ROUNDW	_	-	e 1	164719 C 25/211/0A
		ECHNOL	OGY, 1 Istem		oil Boring <u>3</u>	Drilling Log
Project	Texaco	Castro Y	alley		Texaco Rafia, & Market.	Skaleh Map
Dete Dri	led 11/3		Tot el Cep th	st Hole	23 ft; clameter 7,5 10;	See Site Map
					\$iel Staa	
Cating: D	Xa		Lengin		Type	
					feibod Hollow Stam Auger	Notes -
ünder _	<u>104</u> 4 5	<u>1414</u>	· ·	Log by	Jan Presil	
Depth pf and	Construction	Nei er		Chapter Log	Description/ de	pi Çînşalikatiket
			A of /8, 28 - 5 - - - - - - - - - - - - - - - - -		2 inches asphalt over 5 Gray, sandy clay (medium odor) Light brown, silty clay product ndor) (grades sandy, less light brown, sendy clay product odor)	stiff, dry, mo product (very stiff, dry, mo milty) (medium stiff, dry, mo
-14-			с 15 2)		(grades gray-graan, (grades vary stiff)	
1 8- - 1 8- - 2 0-			D 6		Light brown, claysy, med dry, no product odo (grades brown)	ium sand (medium danse, r)
-2 2-	1		E		(gtadas pore clayey)	,

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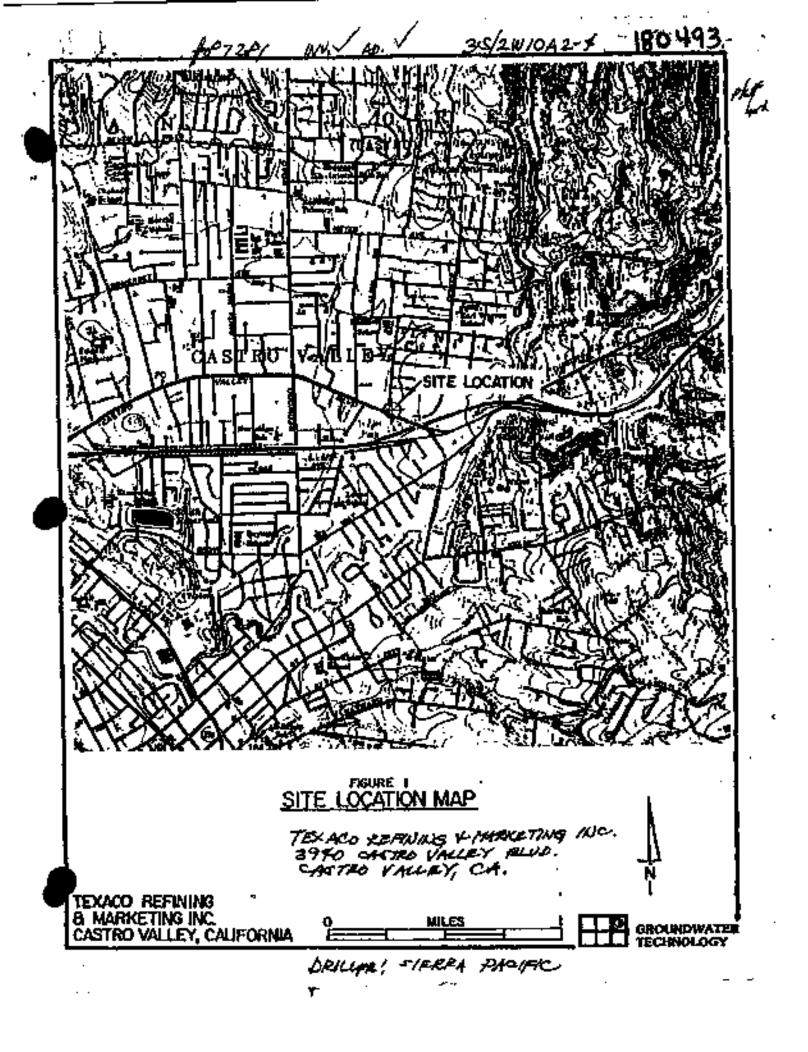


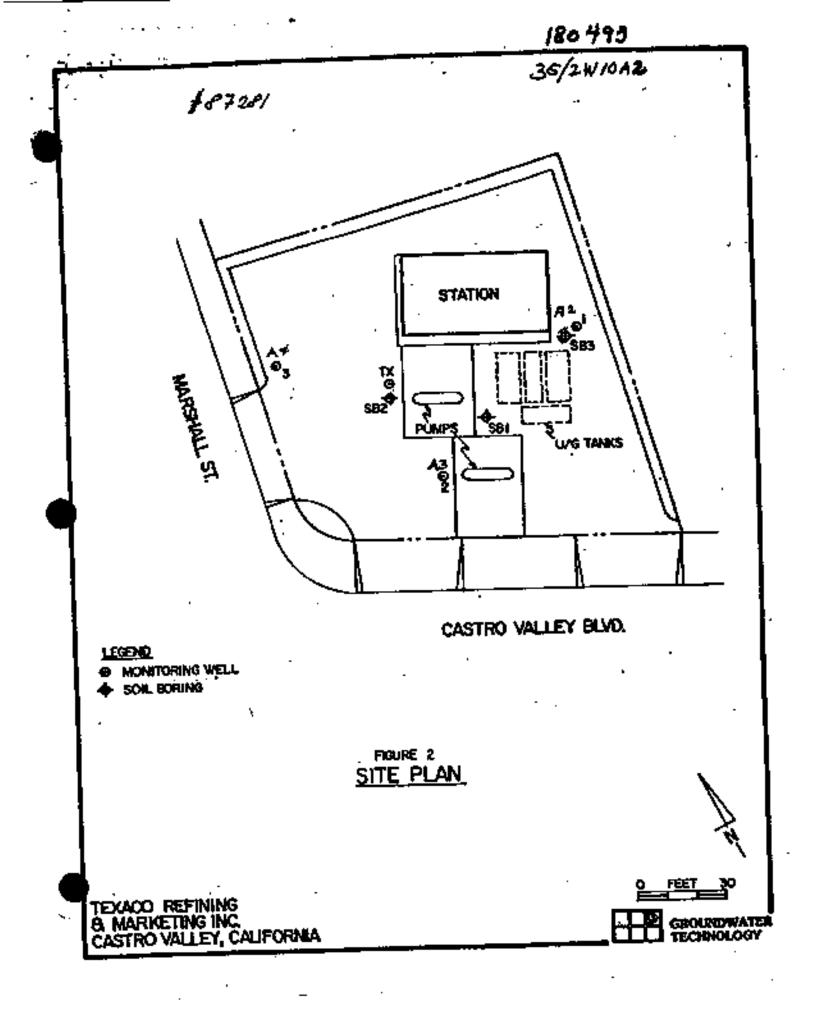
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

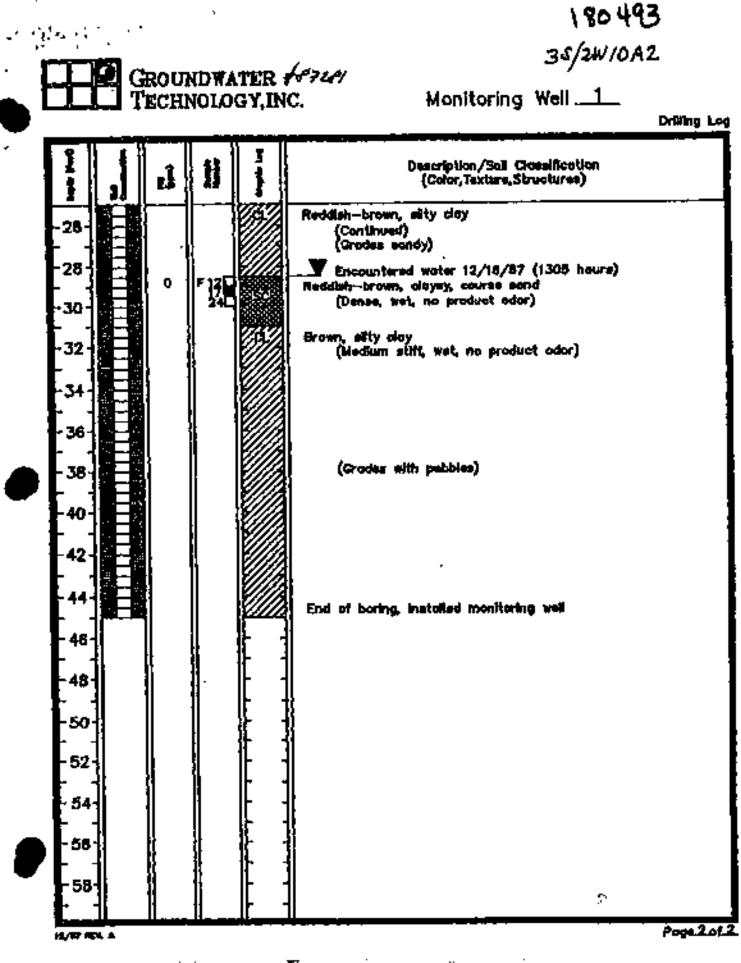
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	.: '	, <i>r</i>			180 493 AD. V 256W1042
	-	ROUI		ter ;	\$87281 AD.V 35/2WIOA2
4U	L T	echi	10100	gy,in(
Location Date Dr	iled.	12/16/	87 Jota	i Depth	Project Number 203-150-4080 of Hole 45 FT Diameter, 10.5 N.
Surface	Devolution of the second secon	601 4 [N.		er Level sih	INITION 28 FT 24-hour SEE SITE PLAN 40 ETStot Size .020 IN.
Coeingt Oriläng Orilier_	Olo Compen	y 965 1000	RRA PA	SFIC	Drilling Method HOLLOW STEM AUGER Log by JAN PRASE
	et / En	ginew.			Ucense No
ž 1		eĴ	11	-	Description/Soll Closeffication (Color, Texture, Structuree)
 - 0 -					2 Inches of asphalt over 5 Inches base course
2					Dark brown, sandy, nity day (Medium stift, dry, na product oder)
9.	3 1 1	•	^ <u>jî</u>		(Gradue light brown with black matiling, leas eandy, stiff)
- 6 -					
8-		0	9 7		(Grades brown) Light brown clayey, eilig, fine soud
- 10-			30		(Medium dense, dry, no product ador)
- 12 -			ic 3E		
- 14-			7 1		Brown ality, olay (Still, molet, no product odor)
- 16 - 18					(Grades eandy)
- 20		0	2		Brown elayey, fine cond (Medium dense, molet, ne product oder)
22			ł		Brown ally day (Stiff, moist, no product odar)
24		0	E 19		(Grades reddleh brown with grey and black motiling)
t/ha (an					Page, 1_of, 2

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TABLE 1

ANALYTICAL LABORATORY RESULTS - SOIL SAMPLE: [DOM]

alleri.	DEPTH (FT.)	SINTING	TOLUENE	RTETL- REVIII-	XYLAND	DTEX	\$02	neterieri Celorice	CELOROPORM	NYDRO- CARBONI (C4-12)	TPE AS GASOLINE
88 1 C	(14-14.5)	-	MD	MD-	ID	ST D		-	-	P	MD .
5917	(29-29.5)	ND	0.95	XD-	WD.		100	1.9	4,025	J D	11D
		D	ID	¥D.	ND.	100				ND.	MD
5B 2 B	(9- 9.5)						_	-	_	MD-	XD
58,27	(28-28.5)			20	ND .	10	-	-	-	-	
876 3 C	(14-14.5)	XD.	ND	XD	MD .) ID		÷	+	ED	MD.
68 3 F	(29-29.5)	XD.	LET D	XD-	in)	MD-		-	-	80	HD .
367 1 E	(24-24.5)	TD		0.24	2.0	-	-	300	100 I	-	-
XW 2 K	(24-24.5)	20		ND.		ED	-		_	24-0	14.0
· – ·							-			MD.	ND
XW 3 X	(24-24.5)	1 10		, MD		ED	-	-	-		

ABALYTICAL LANDAYONY RESULTS - NATER SAMPLES [DDb]

******	194294	TOLOGIE	İTRAL- Desisini	XTLOR	ma	NISC. EVERO- CARBONS (C4-12)	TPH AS CASOLINX
83 3 354-2 161-2 161-3	70 15 220 302	* 13 14 10	4 3 JD	1,400 190 150 - MD	1,709 228 390 TD	27,000 1,900 2,000 ND	29,000 2,100 2,400

ND - Lens than Practical Quantitation Levels as per 12% Federal Register 206 - Intal Gil and Grease 208 - Intal Petroleum Hydrocarbons EFEX - Intal Bensene, Toluers, Sthylkenmone, Xylene

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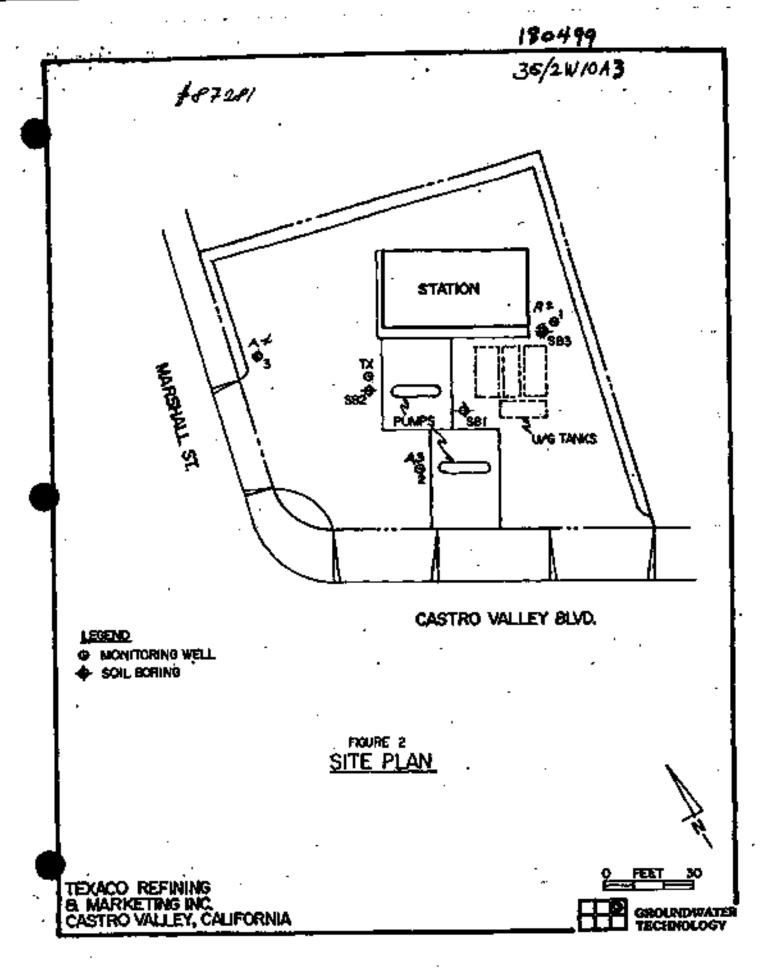
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

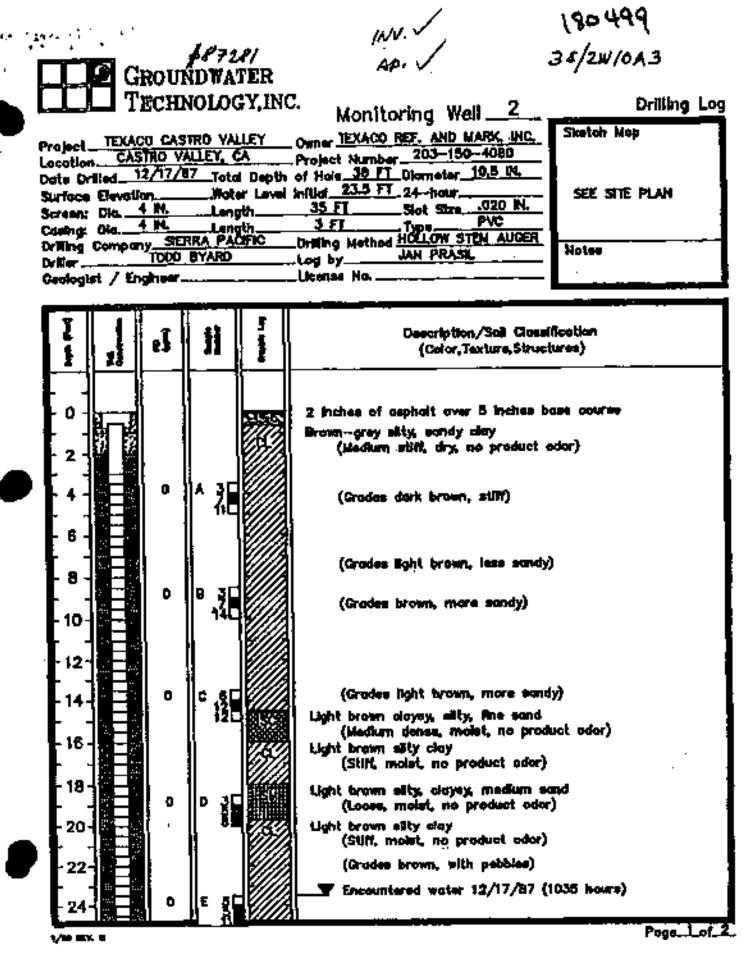
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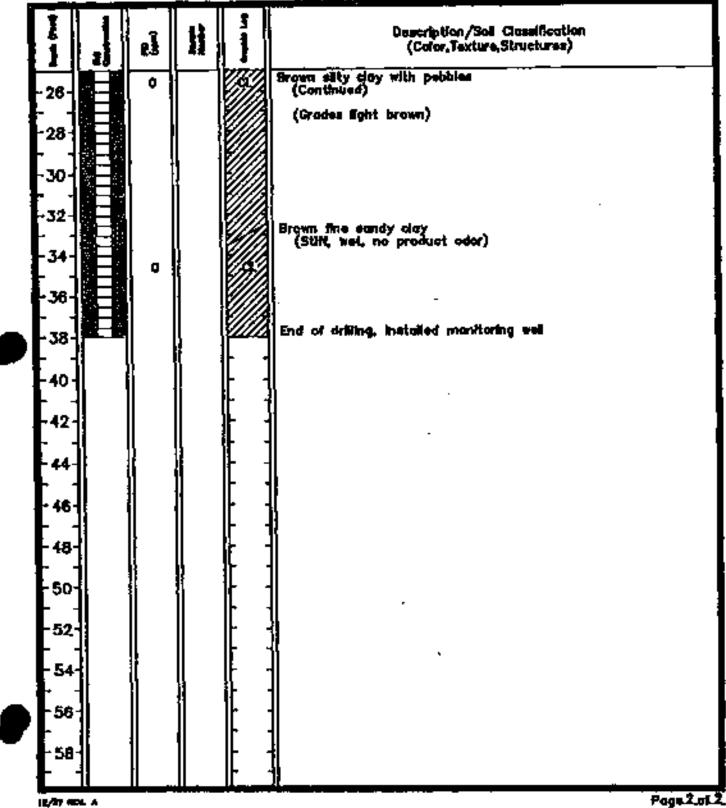
##72.P/ GROUNDWATER TECHNOLOGY, INC.

•••• (et al.)

180499 35/2W/0A3

Monitoring Well _2_

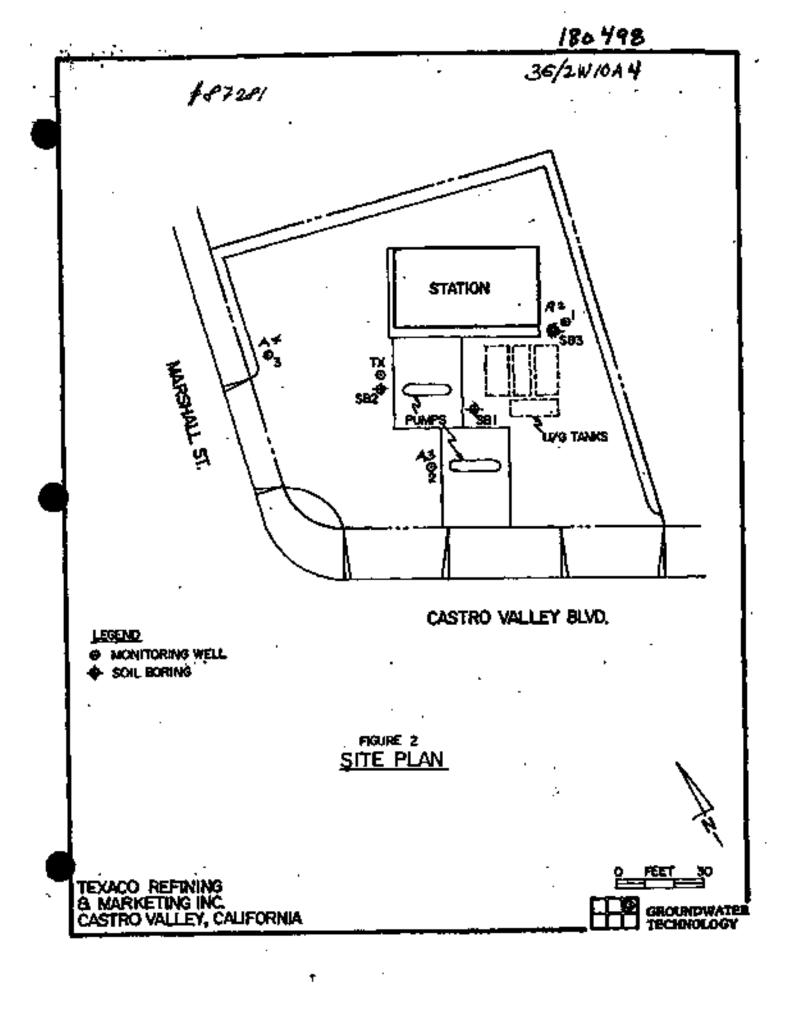
Orilling Log

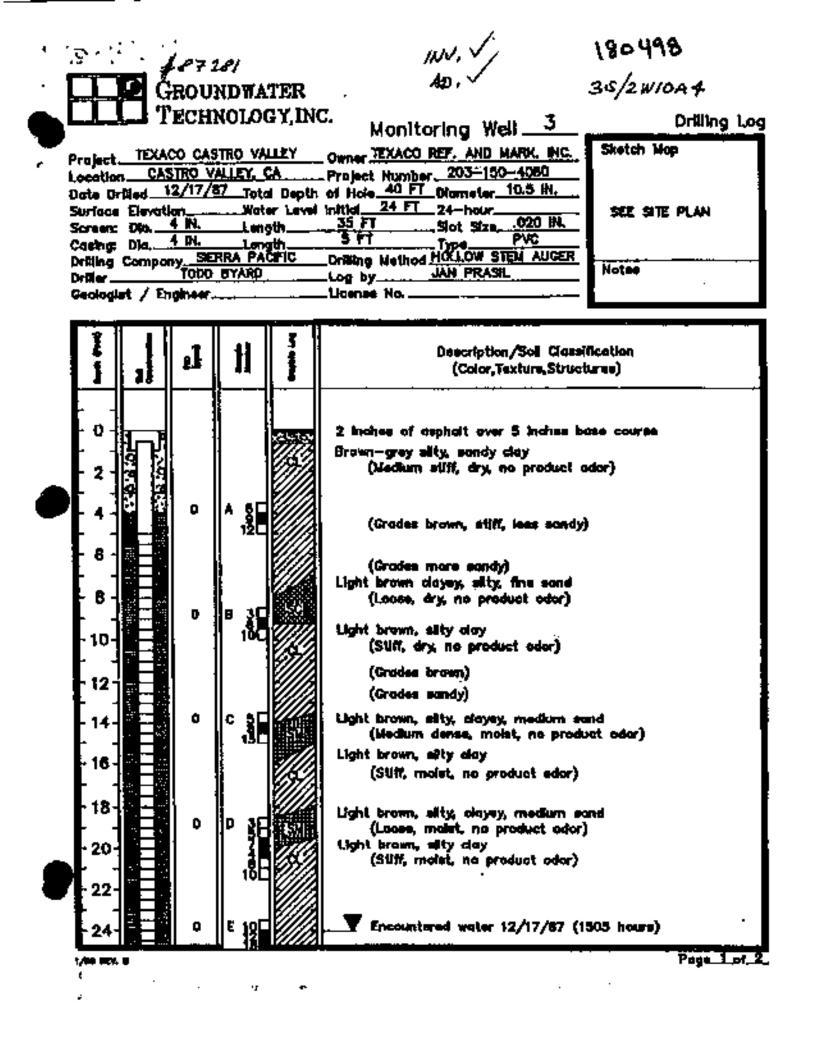


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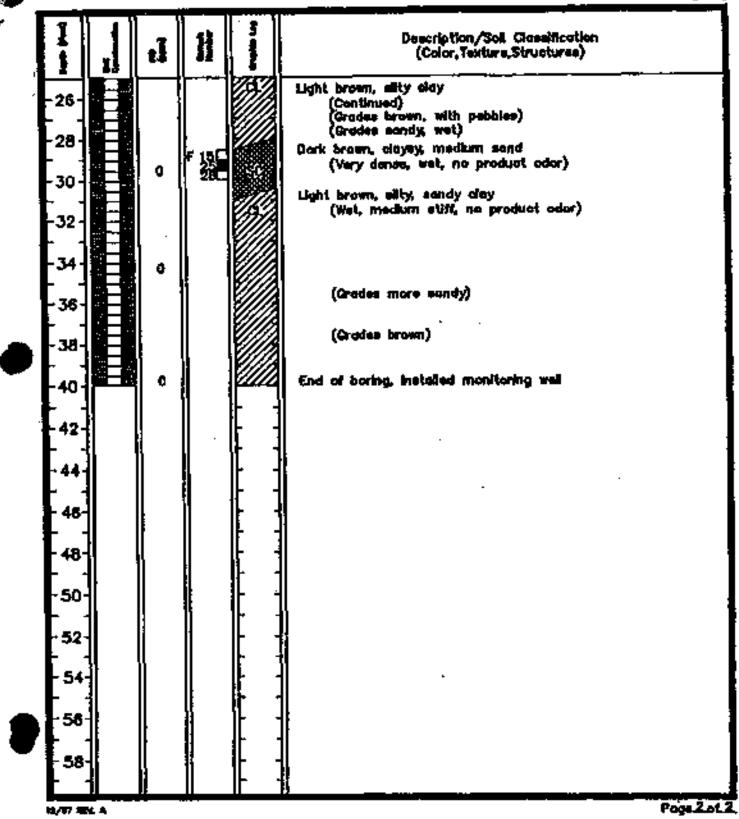


##728/ GROUNDWATER TECHNOLOGY,INC.

180498 35/2W/0A4

Monitoring Well 3

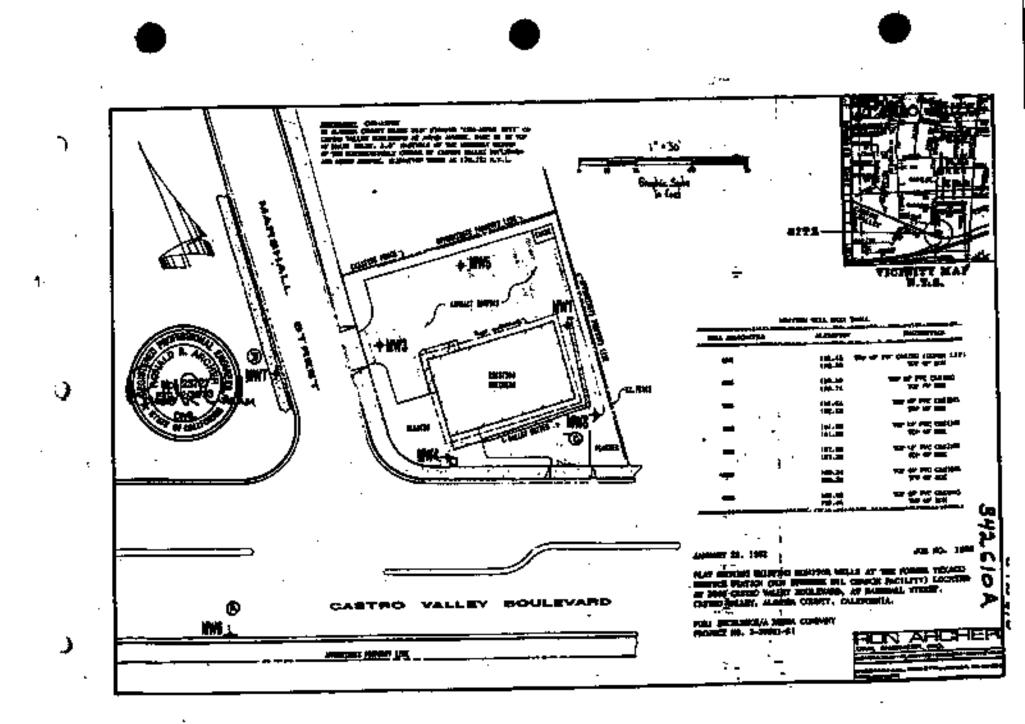
Drifting Log



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Boring No. MW-6 Project Name: Former Texaco Service Station 3940 Castro Valley Bouloverd Date Drilled: 1/2091 Castro Valley, California Logged By: N.L. Nack Project Number: 3-30091-31 (ppm) (ppm) Unified Soli Classification Witter Lovel Sample No. € Blows/Foot SOIL DESCRIPTION 4" amhait, 8" aggregats base SILTY CLAY, possible strifficial fill office brows (2.5Y 4/4), sik -20%. 1 CL. and -15%, atti, moint 2 SILTY CLAY, yellowish brown (10YR 4/5), allt = 20%, and 5-10%, α. enciliam still, moint 6-1 * 3.1 CLAYEY SILT, yellowish brows (10YR 4/5), shy ~20%, and -10-15% 6-2 9 12 12 24 increasing site, pockets of sity and 6-3 11 16 17 39 SAND, dark yellowish brown, (10YR 4/4), = 10-15% silt, well graded, SW madium dense, saturated (small porched 2000) 13 % CLAY, brown (10YR \$/3), -10% all, -5% pand, very sliff, moist REVIEWED BY R.G./C.E.G. Page 1 of 2

34,2610A EXPLORATORY BORING LOG

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03502W10407

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)	ect Name		3940 C Castro		Date Drilled: 1/20/91 Logged By: N. L. Nack					
Depth (h.)	Sample Na.	BlownFoot	Unified Soll Classification							
22 23 24 24 24 25 26 27 28	4	14		CLAY, continued Becoming gravely		3.0				
30 31 - 32 - 33		30	GR	GRAVEL, intown to yellowish brown (10YE 4/3 to 10YR 5/8), and ~25-30%, gravel poorly graded, subargalar to subsounded, <1/2-incla diameter, medium dense, seconded	V	2.0				
- 34 - 35 - 36 - 37 - 38 - 38	4		SP GP	SAND, become (10YR 4/3), poorty gended, sill ~15%, flowing, loose GRAVEL, because to yellowish become (10YR 4/3 - 10YR 5/8), soud ~25-30%; genvel poorty graded, includes shale, sundations, mediana donse Bottom of boring: 38 Sect						
				Groundwater encountered: 29 feet		-2012				

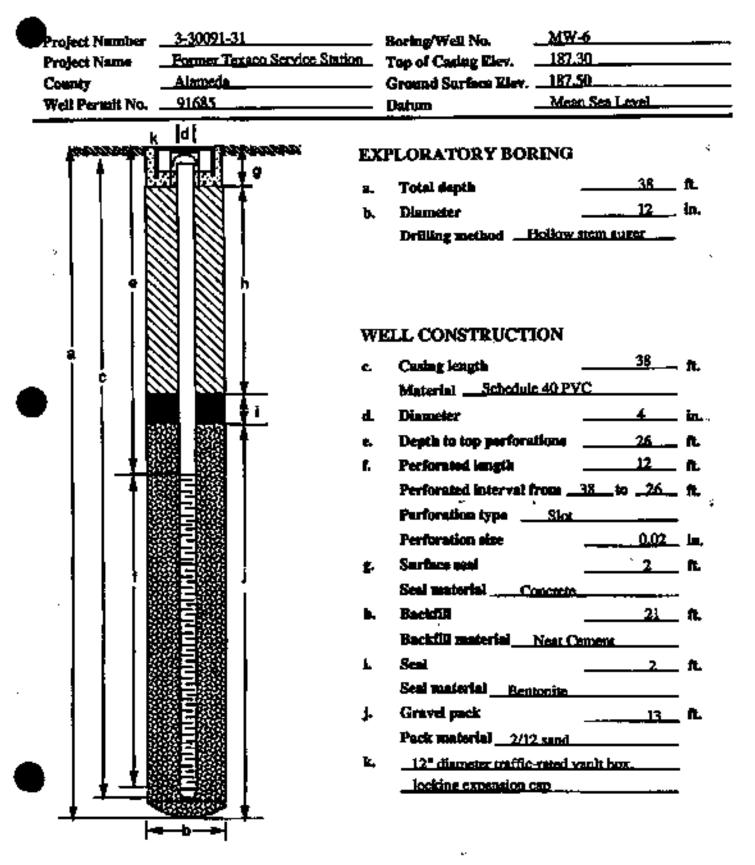
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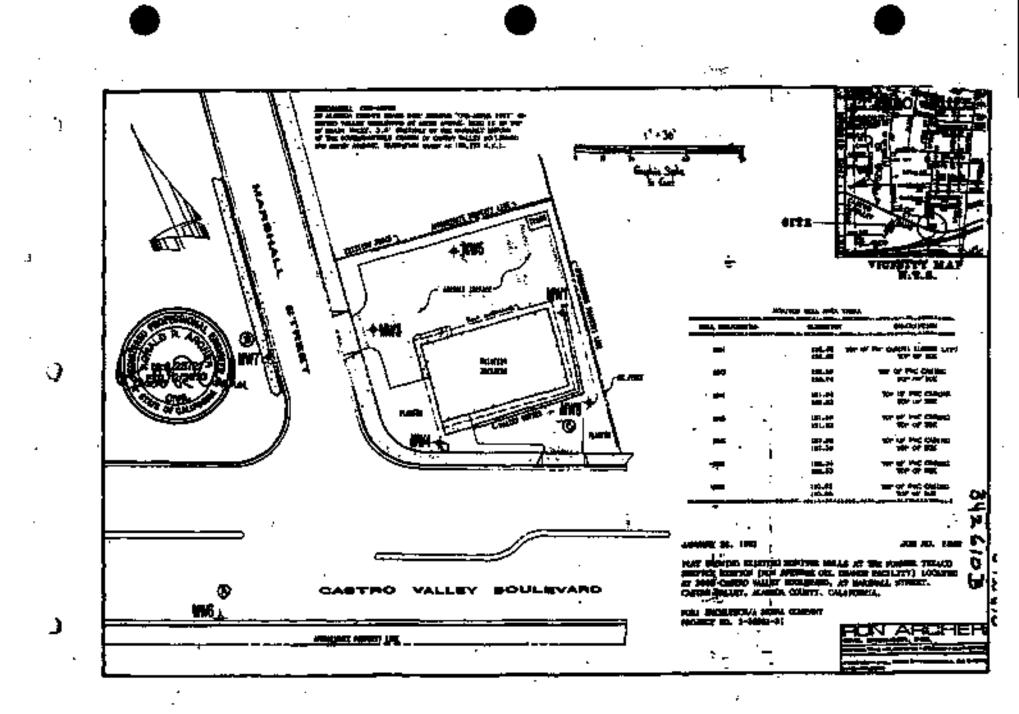


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MONITORING WELL DETAIL



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



342610B . 55000 40A08

EXPLORATORY BORING LOG

	•	ect Name		3940 Ca Castro V	Fenace Service Station pro Valley Boulovard alley, Chilfornia -31 Logged By: N. L. No	at _
	Depth (ft.)	Sample No.	Blows (Fool	Unified Soil Cassification	SOIL DESCRIPTION	Water Lavel OVM Reading (ppm)
				Р	6" contront, 8" base SILTY CLAY, pomible artificial fill, dark grayink brown (2.5Y 4/2), zilt ~20%, cand -20%, stiff, moist	
	- 5	7-1	21	<i>в , ,</i> в	CLAY, brownish yellow (10YH 544), smid ~30-40%, pockets of clayoy and, very stiff, damp CLAYBY SAND brownish yellow (10YR 5/4), clay ~30%, medican dense, moist	4.0
	- 10 - 11 - 12 - 13	7-2-	IJ	HEL.	SILT, Sight yellowish brown (10YR 6/4) clay =10%, and =15%, friable, rootholies, microlayms, motion stiff, moist	32
	14 15 16 17	7-3	22	SM.	-increasing moisture, sand SILTY SAND, yellowish brows (10YR 5/4), sik =20-30%, fine-grained, trace coarse gravels, subfilte dense, damp	
D	- 18 - 19 - 20 - 21	7-4	23	×	CLAY, brown (10YR 5/3), aik ~15%, and -5-10%, modium to high phonicity, skiff, molet REVIEWED BY B.G.JC.E.G.	4.0 Page 1 of

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EXPLORATORY BORING LOG

342610 B 63542W/0408

Project Name:

w

Pormer Tenneo Service Station 3940 Centro Valley Boulevard Came Valley, California Project Number: 3-30091-31

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Boring No. MW-7 Date Drilled: 1/21/92 Logged By: N.L. Neck

Depth (h.)	Settiple No.	Blows/Foot	Unified Soil Conditionation	SOIL DESCRIPTION	Water Level	OVM Reading (seem)
22-22-22-22-22-22-22-22-22-22-22-22-22-			Ρ.	CLAY, continued SILTY CLAY, yollowish beown (10YR \$41), silt =20-30%, very stiff, moin.	¥	
E.H	7-5	28	н 194	-granit precised zone SAND, yellowish brown (10YR: 54) poorly graded, alk = 10%, median dense, sammind, small perched zone		ىە
- 28		ъ		SILTY CLAY, yellowish hown (10YR 5/4), sik «20-30%, moist, sidt SILT, yellowish brown (10YR 5/4), fractaned, sidt, moist	V	
31		36	sc	CLAYBY SAND, yellowish brown (10YR 54), clay ~10-20%, gravel =5%, astarated, dange		2.8
- 13-				-increasing and and gravels, flowing		
- 36 - 37 - 38			oc	CLAYEY GRAVEL, brown to yeikowish brown (10YR 4/3 to 10YR 5/5), cisy =20%, gravel abbrounded, $\leq 2^{\circ}$ diameter, dense, saturated -ample from drift bk		
- 39 -				Bottom of bording: 40 Sect		
42				Groundwater encountered: 30 feet REVIEWED BY R.G.C.E.G.	Pare	2 07 2

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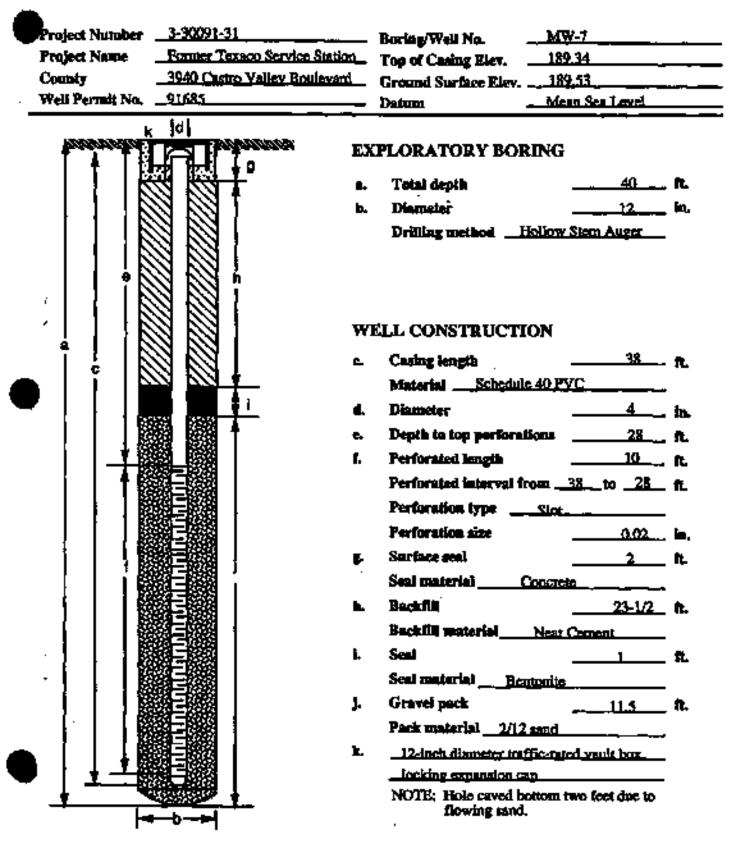
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MONITORING WELL DETAIL



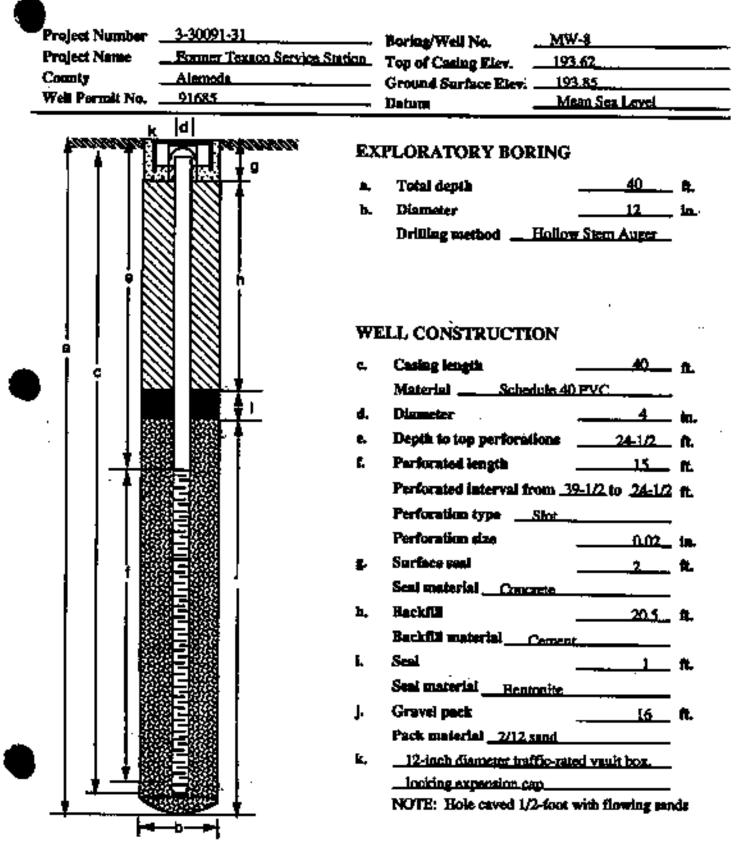
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

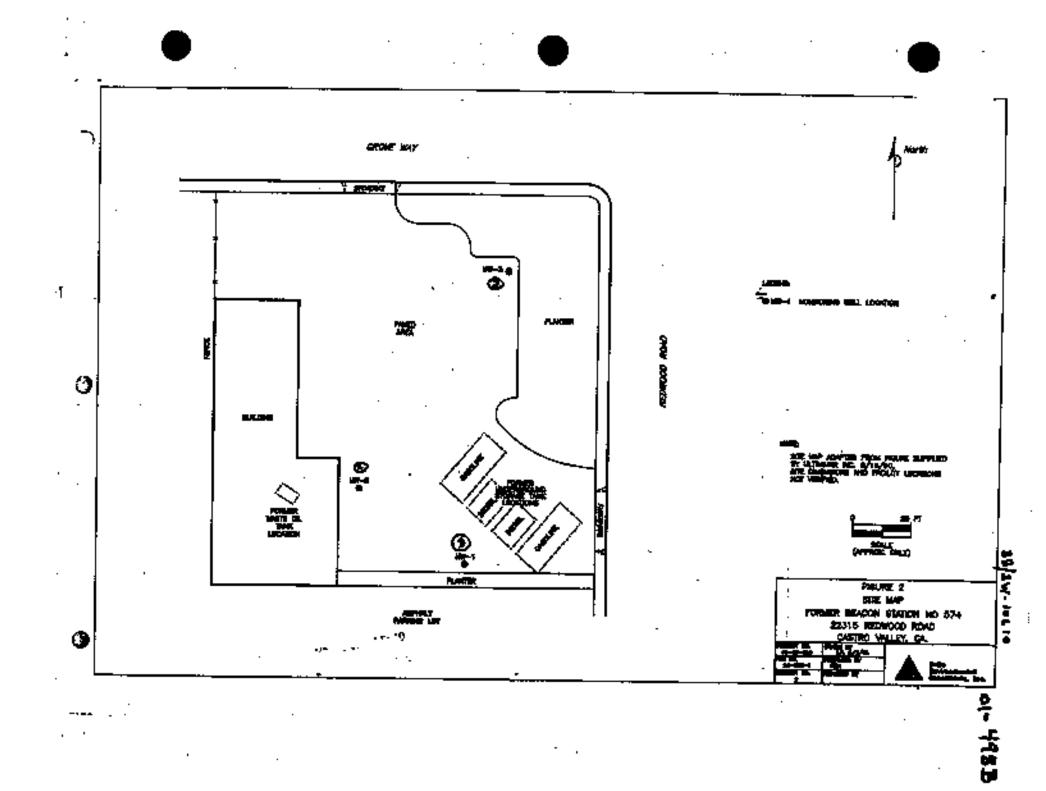
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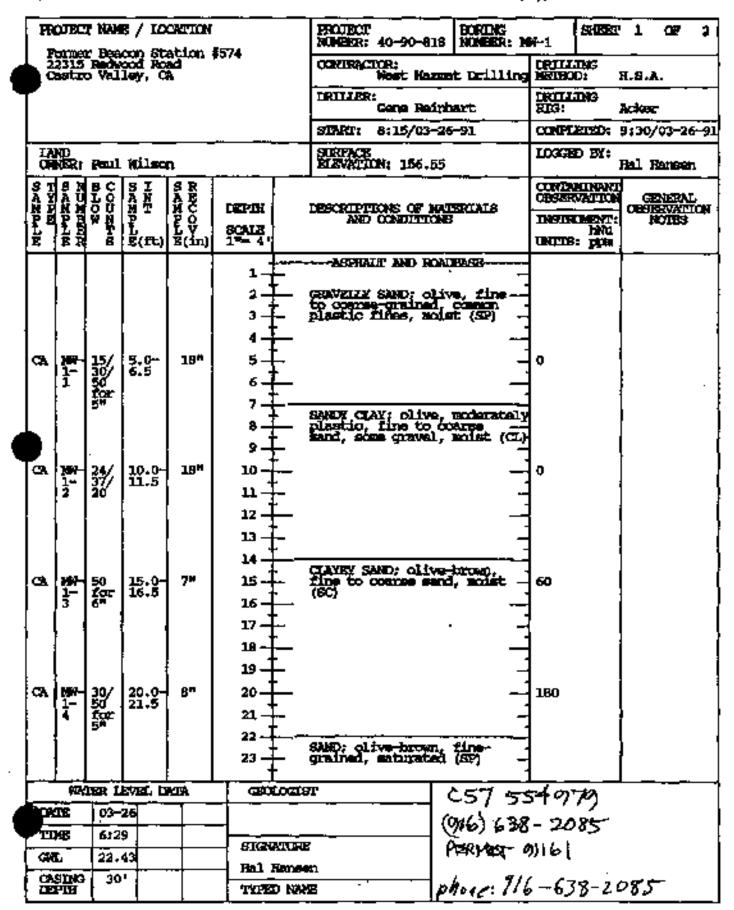
MONITORING WELL DETAIL



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PROJECT NUMBER: 40-90-618 BORING NUMBER: NH-1 PROJECT NAME / LOCATION SHEET 2 QF. Former Beacon Station \$574 22315 Redwood Road Castro Valley, CA Nest Bezant Drilling PRILLING MERHOD: H.S.A. DRILLER: DRILLING Gene Reinhart RIG: Actes STRACT 8:15/03-26-91 CONFLETED: 9:30/03-26-91 INKO OWER: Faul Wilson SURFACE ELEVATION: 156.55 LOGGED BY: Bal Hernen SANT SANT CONTRACTIONANT OPERAVIATION SANP RECOV GENERAL DESCRIPTIONS OF MATERIALS AND CONDITIONS OPSIERVATION NOTES DEPTH DISTRIMENT: SCALE Ĺ ours: pp Ī(ft) E(in) 8* SHEW SAND; clive-incom, fine grained send, saturated (SM) 25.0-26.5 8 ¥ 25 26 27 -26 29 影響 30.0-31.5 71 30 з 31 -32 Total Depth 31.5 feet 33. 34 35 -36 -37 -38 -39 40 41 -42 -43 44 45 -46 47 -GEOLOGIST NAMER LEVEL DATE. 03-26

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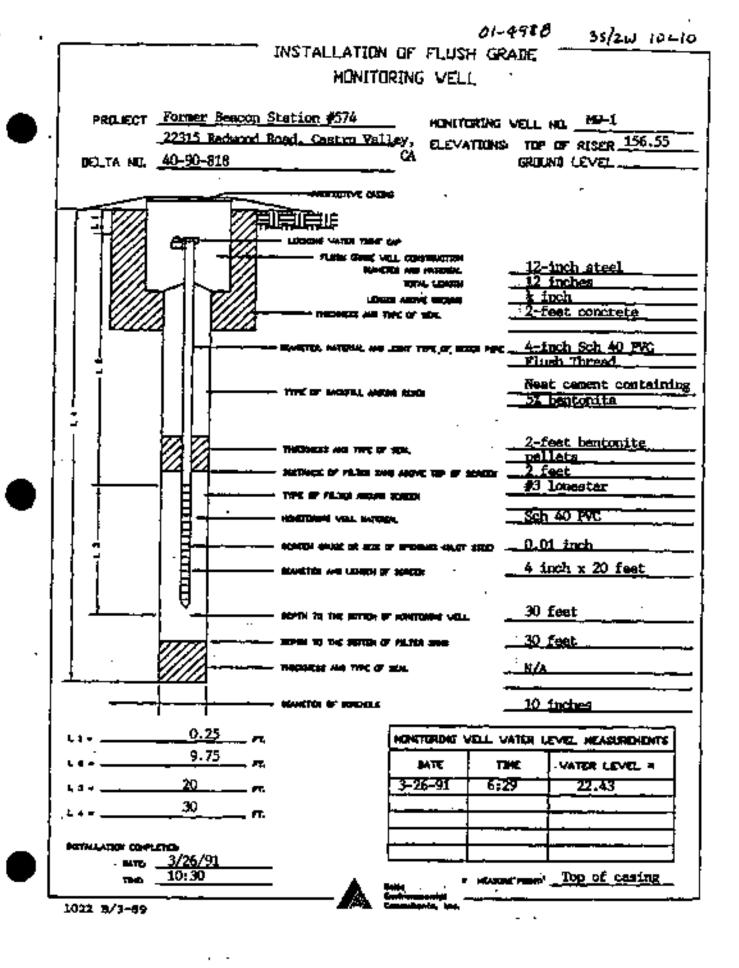
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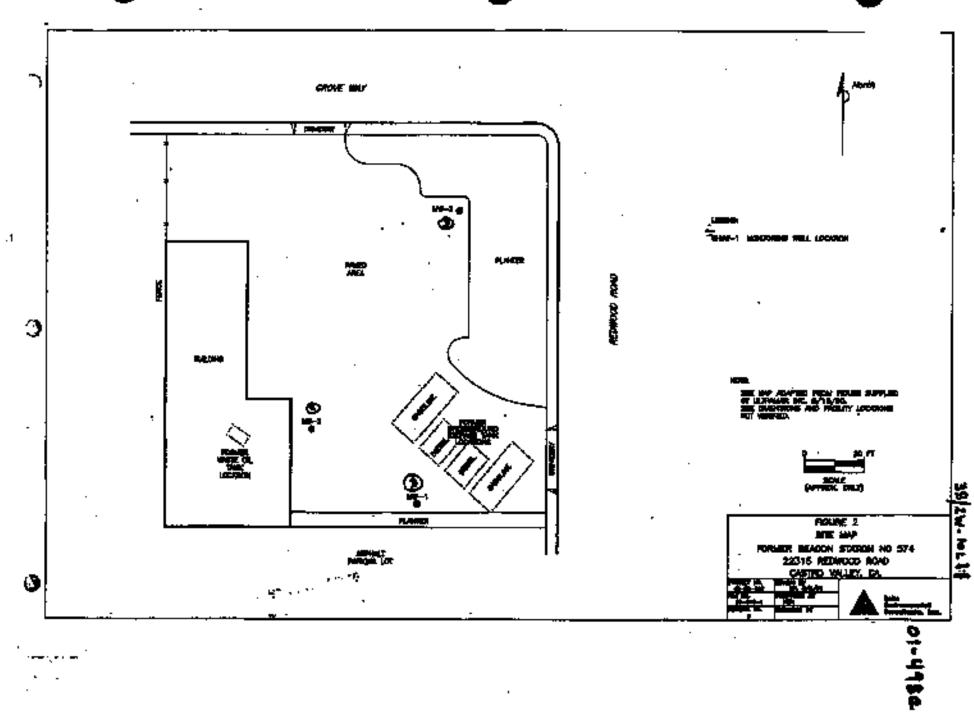
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	1				3 ±	 CRAVELIN SAND; o to coarse-grains plastic fines, m 	1					
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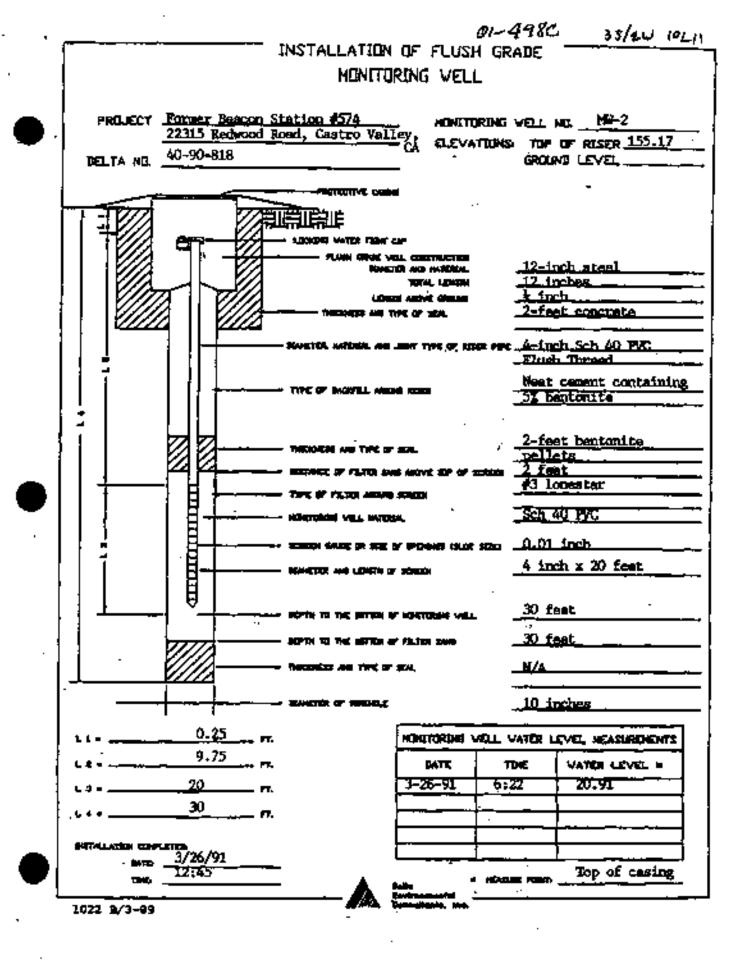
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						START: 10:30/03-26-91						1:45/	03-26-9		
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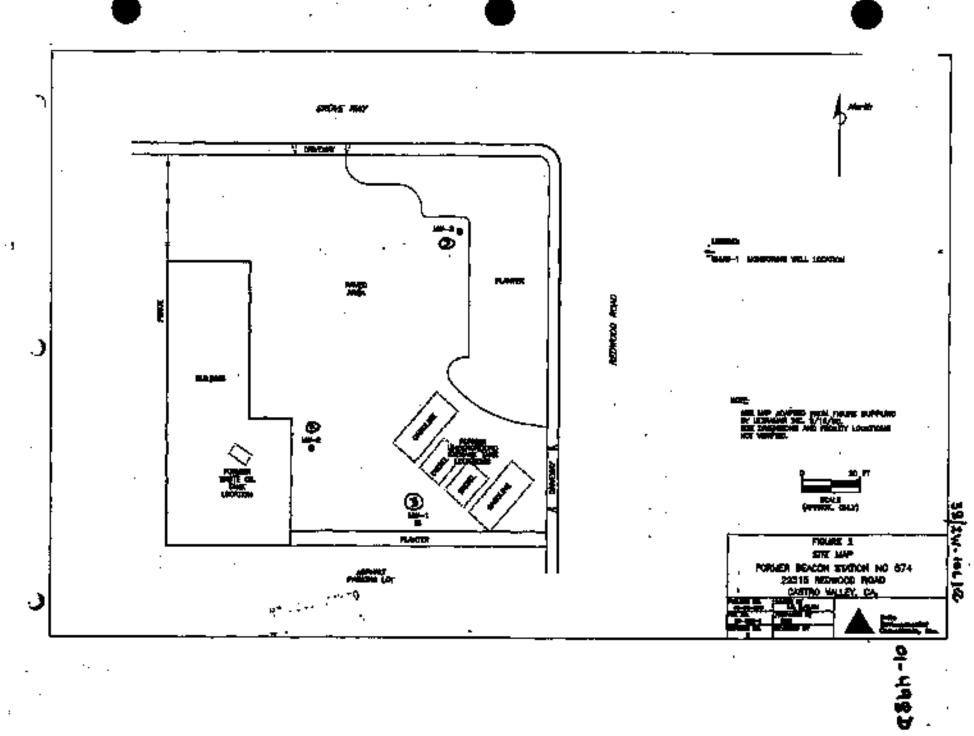
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							START: 1	140/03-26	-91	COMPL	ener):	3:00/	/03-24	6-91	
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							DRULER	Gene Rein	bart		IRITI: RIG:		Acker	-		
							START:	1140/03-2	691		COMPLETED: 3:00/03-26					
LAND OWNER: Peul Wilson							SURFACE ELEVATE	M: 157.13		-	LOGGE) BY:	Rai I	iunee	η	
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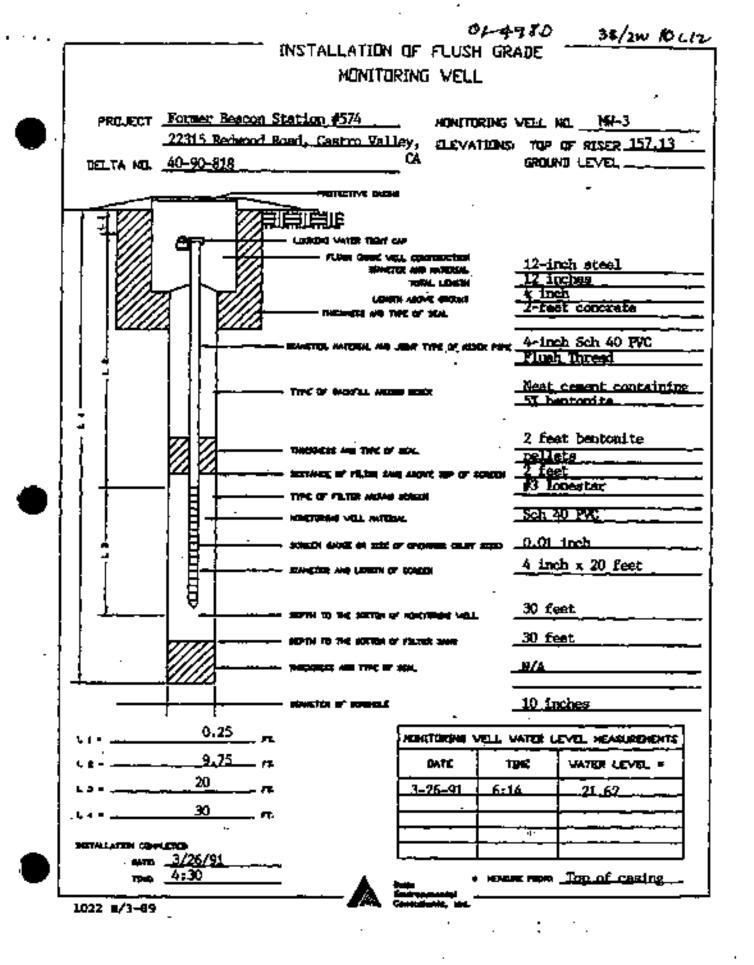
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

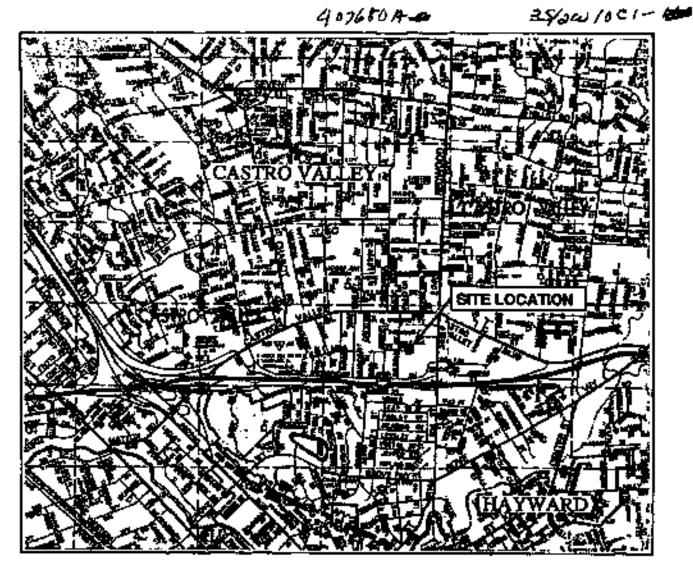
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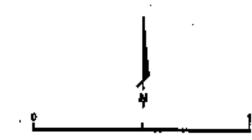
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



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Scale in Miles

LOCATION MAP

BART February 1993 Castro Valley District Corporation Yard 03715-061-048 Castro Valley, California

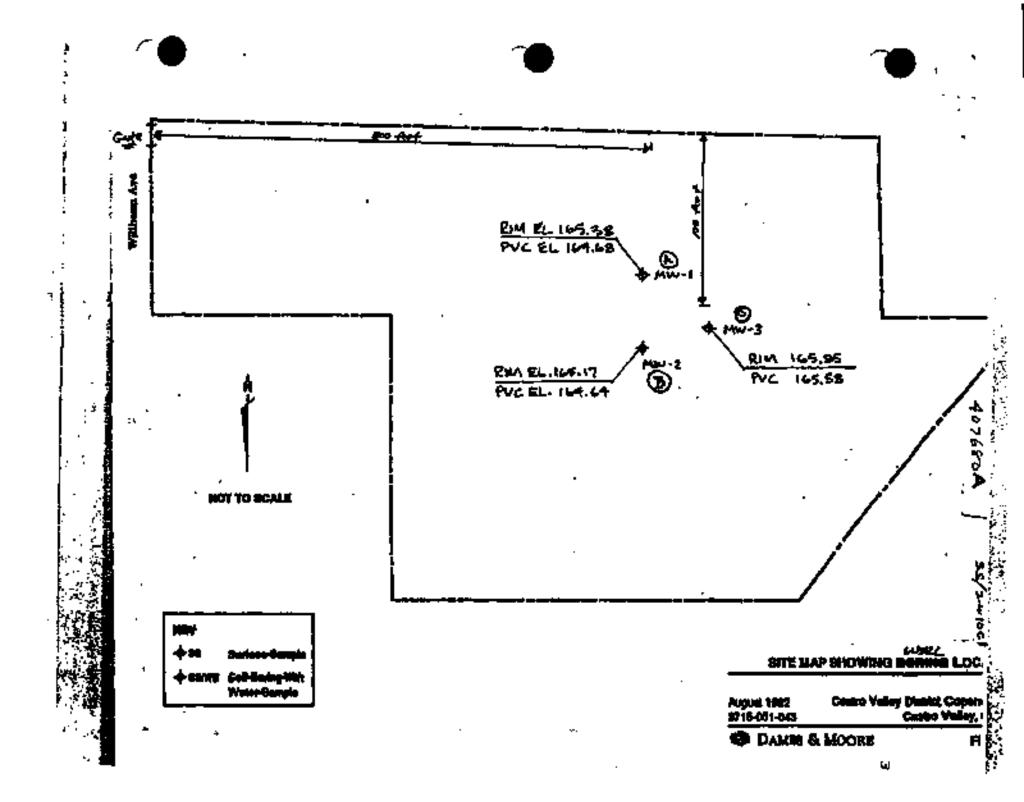
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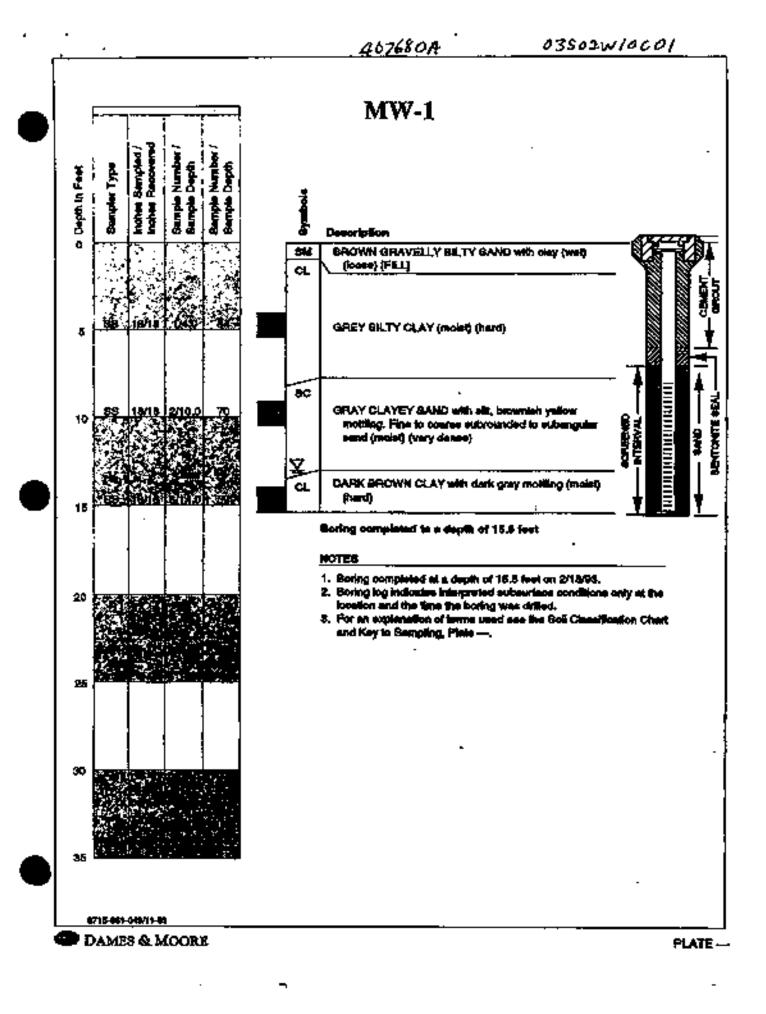
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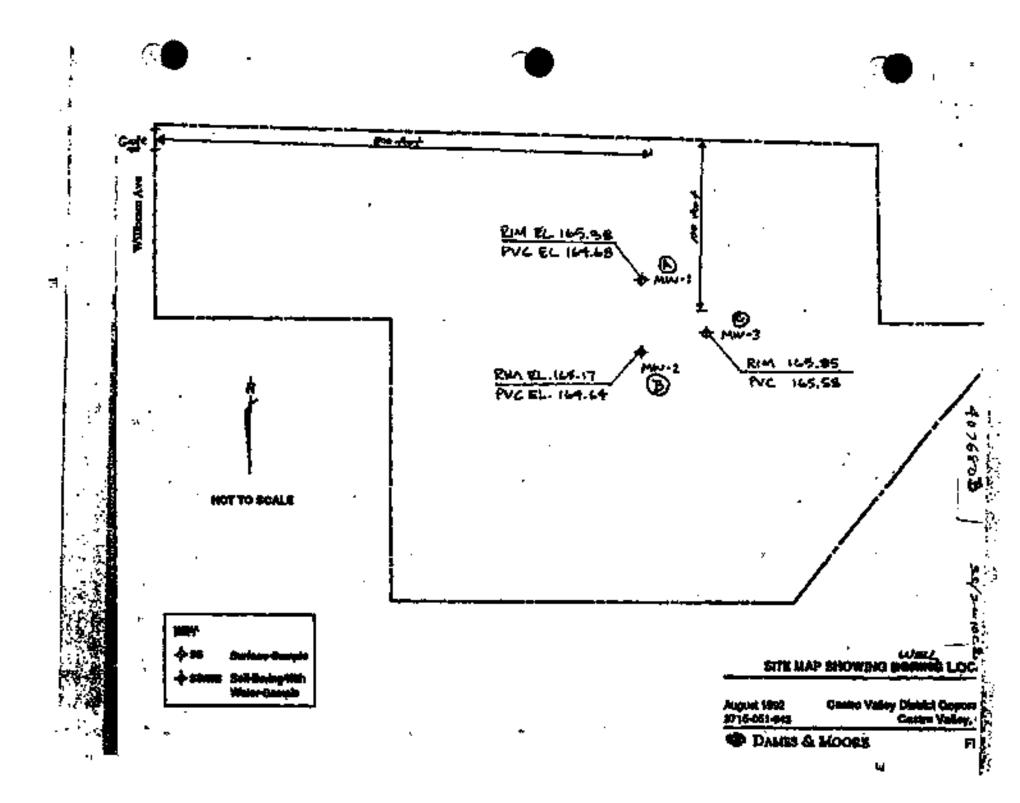
FIGURE 1

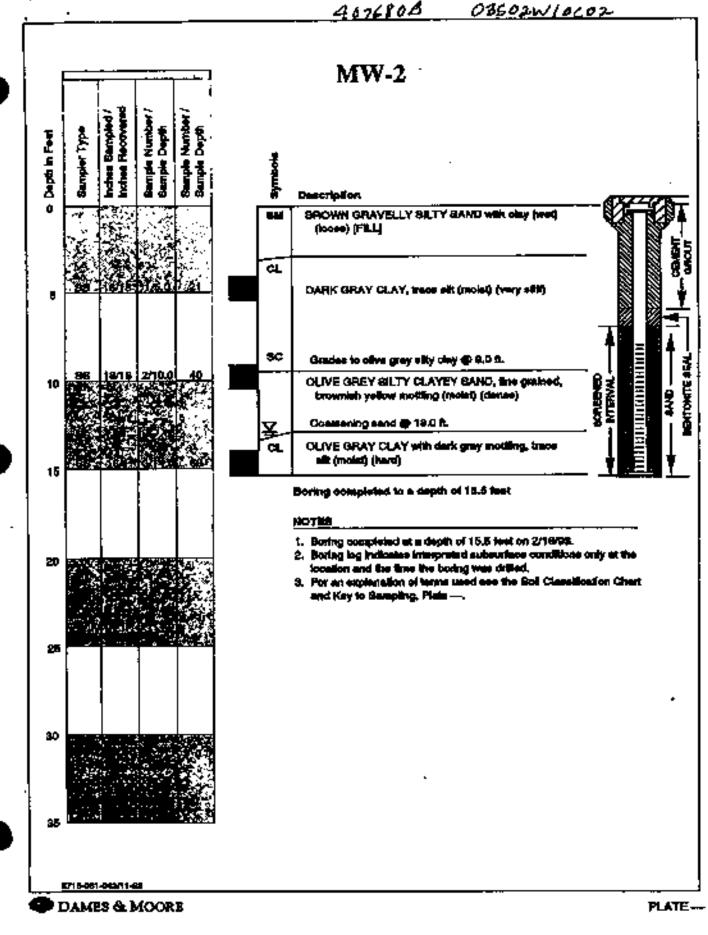
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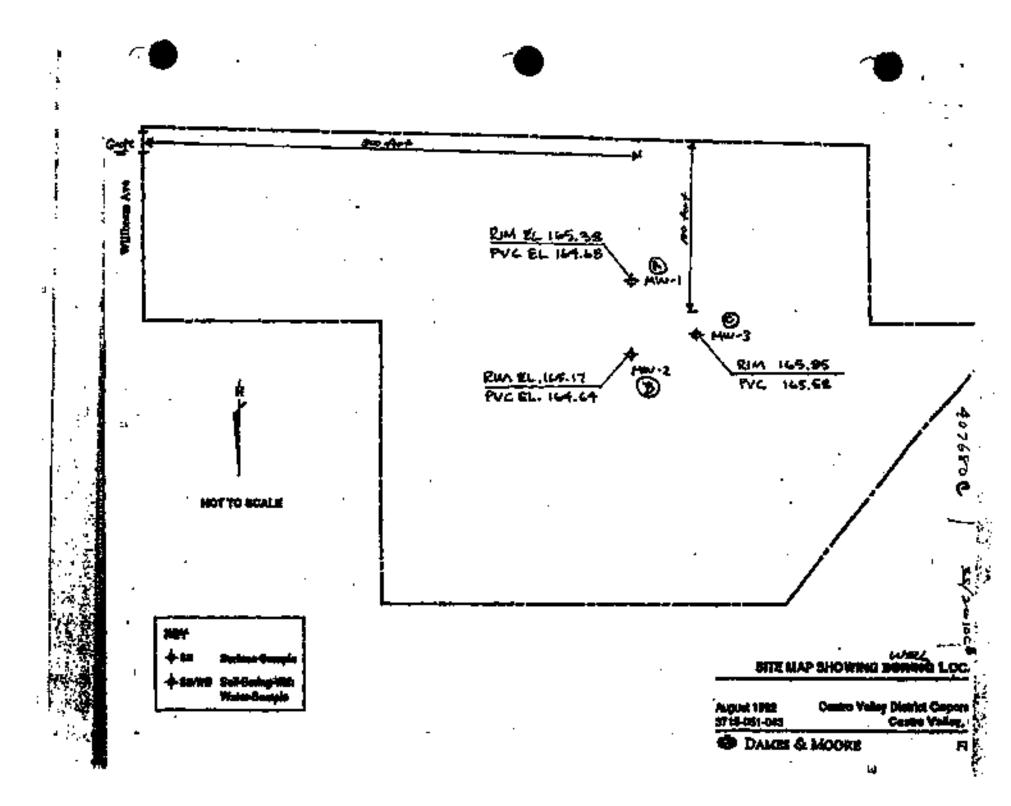
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

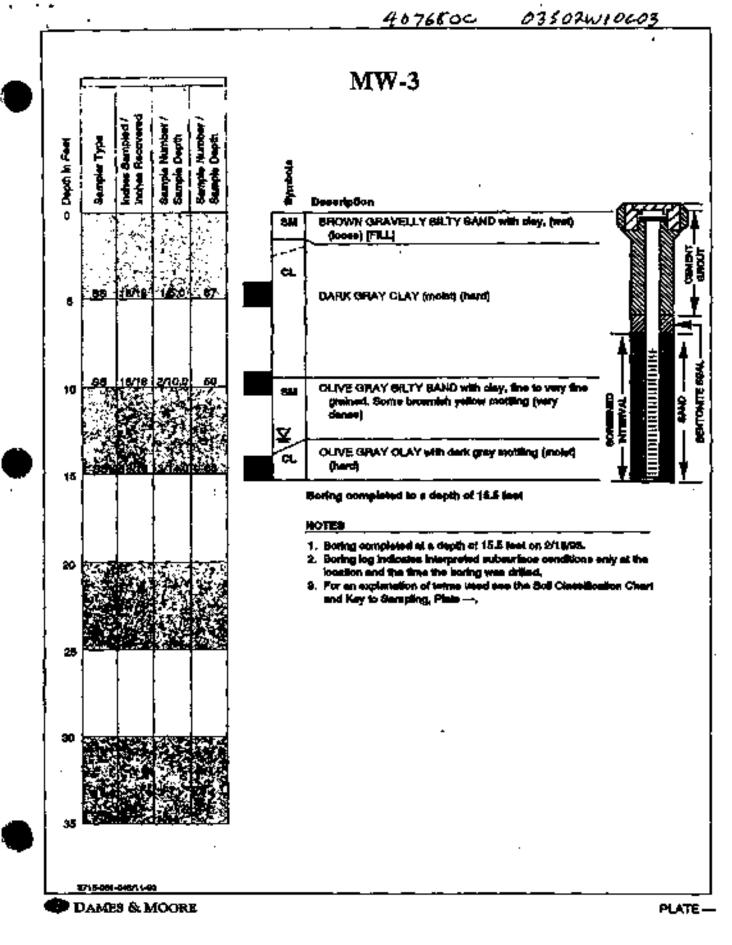




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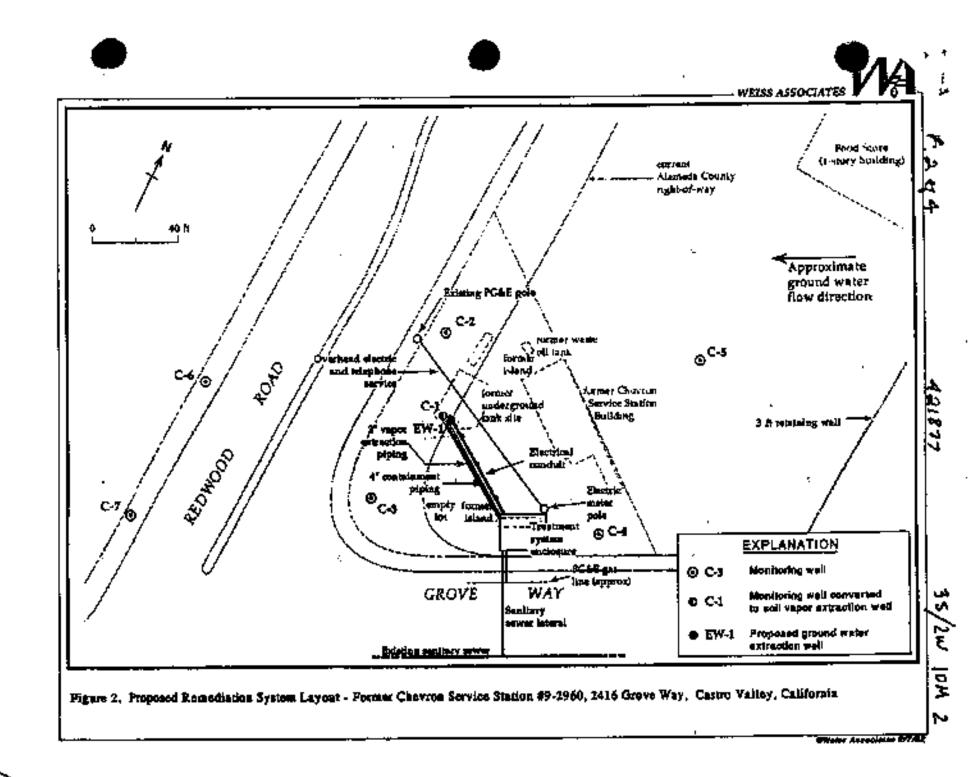
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)





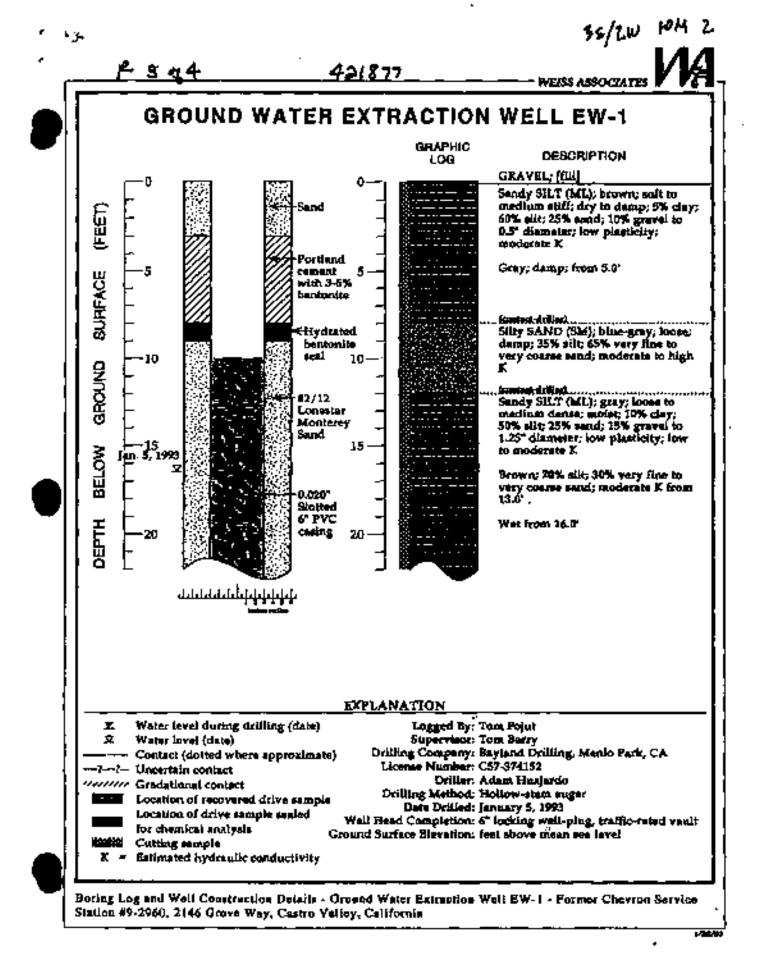
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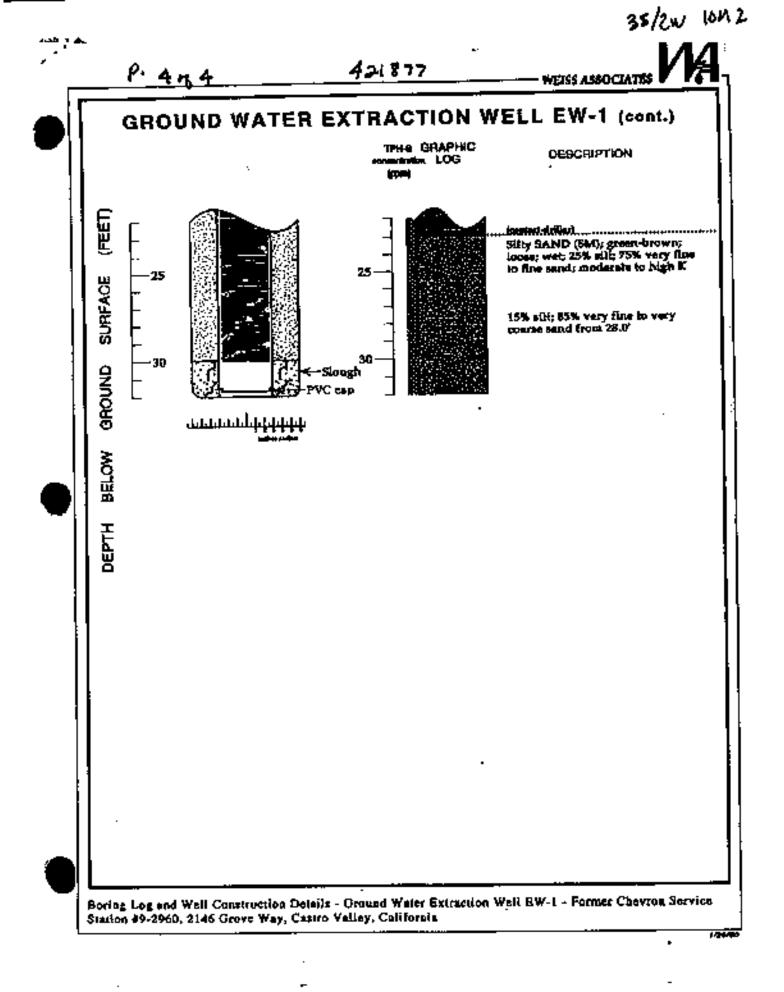
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



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Appendix C

Well Search Results (Alameda County Public Works Agency)

<u>Tr</u>	Section	Address	<u>Owner</u>	<u>Update</u>	<u>Xcoord</u>	Ycoord	<u>Tsrqq</u>	<u>Drilldate</u>	<u>Elevat</u> ion	<u>Totald</u> epth	<u>Water</u> depth	<u>Diam</u> <u>eter</u>	<u>Use</u>
3S/2W	10L	#2 Corporation Yard ?	Alameda Public Works	6/22/1993	122073359		3S/2W 10L	6/92	0	16	0		BOR
3S/2W 3S/2W	10P 2 10M 3	ہ 1768 Knox St	E. KOOS John Higginbotham	8/3/1984 12/4/1997	122073861 122076124		3S/2W 10P 3S/2W 10M	? 1/94	0 0	73 50	0 22		IRR DOM
3S/2W	10L 6	1783 KNOX STREET	NANCY C. CARTER	12/11/00/	122075948		3S/2W 10L	Oct-88	0	0	0		DES
3S/2W	10N 1	1792 Crescent Ave	Plymouth Group	6/22/1990	122074470		3S/2W 10N	2/90	0	0	0	0	DES
3S/2W	3B 1	19861 FOREST AVE	RONALD SILVA	8/2/1984	122069571	37705267	3S/2W 3B	8/77	0	50	20	6	IRR
3S/2W	3K 3	19910 FOREST AVE	JACK LUSE	8/2/1984	122069571	37698477	3S/2W 3K	8/77	0	56	38	8	IRR
3S/2W	3K 4	19945 FOREST	MR. WEHE	8/2/1984	122069571		3S/2W 3K	3/78	0	51	15		DES
3S/2W	3F 2	20115 FOREST AVE	MARTINS NURSERY	8/2/1984	122074016		3S/2W 3F	Nov-85	0	31	5		MON
3S/2W	3K 1	20115 FOREST AVE	MARTIN NURSERY	8/2/1984	122069571		3S/2W 3K	8/53	201	116	28		IRR
3S/2W 3S/2W	3Q 3 3R 1	20283 YEANDLE AVE 20287 MARSHAL ST	ROBERT ROUSEY MR. ORNELAS	8/2/1984 8/2/1984	122069947 122065101		3S/2W 3Q 3S/2W 3R	5/77 Dec-77	0 0	28 61	18 21		IRR IRR
35/2W	3P	20405 Redwood Rd	Robert T. Nahus	8/1/1991	122003101		3S/2W 3R 3S/2W 3P	5/91	29	0	21		BOR*
3S/2W	3P	20405 Redwood Road	R. T. Nahas Company	7/9/1990	122072869		3S/2W 3P	Dec-89	0	0	12		BOR
3S/2W	3P 4	20405 Redwood Road	R. T. Nahas Company	7/9/1990	122072869		3S/2W 3P	Dec-89	0	30			MON
3S/2W	3P 5	20405 Redwood Road	R. T. Nahas Company	7/9/1990	122072869		3S/2W 3P	Dec-89	0	30	12		MON
3S/2W	3P 6	20405 Redwood Road	R. T. Nahas Company	7/9/1990	122072869	37697321	3S/2W 3P	Dec-89	0	25	12	2	MON
3S/2W	3C 1	20450 REDWOOD RD	EXXON OIL	8/2/1984	122074016	37705262	3S/2W 3C	8/77	0	50	0	0	?
3S/2W	3Q 5	20551 FOREST AV	HOWARD W. BURKHART	1/18/1985	122067900		3S/2W 3Q	2/50	0	57	0		?
3S/2W	3P 7	20629 Redwood Rd	R. T. Nahas Co. MW-5	9/21/1992	122072914		3S/2W 3P	3/92	195	37	23		MON
3S/2W	3P 8	20629 Redwood Rd	R. T. Nahas Co. MW-6	9/21/1992	122072914		3S/2W 3P	4/92	188	29	16		MON
3S/2W 3S/2W	3P 9 3Q 4	20629 Redwood Rd 20680 FOREST AV	R. T. Nahas Co. MW-7 G.G. PAUL KASMER	9/21/1992 1/18/1985	122072914 122067700		3S/2W 3P 3S/2W 3Q	4/92 Oct-73	187 0	31 20	15 0		MON DES
35/2W 35/2W	30 4 10C 1	21000 Wilbeam Ave.	BART MW-1	7/15/1983	122087700		3S/2W 3Q 3S/2W 10C	2/93	0	20 16	14		MON
3S/2W	10C 2	21000 Wilbeam Ave.	BART MW-2	7/15/1993	122075868		3S/2W 10C	2/93	0	16	14		MON
3S/2W	10C 3	21000 Wilbeam Ave.	BART MW-3	7/15/1993	122075868		3S/2W 10C	2/93	0	16	14		MON
3S/2W	10A	21195 Center Street	Office of State Architect	6/8/1990	122061474	37693742	3S/2W 10A	1/90	0	0	0	6	BOR*
3S/2W	10A	21195 Center Street	Office of State Architect	6/8/1990	122061474	37693742	3S/2W 10A	1/90	0	0	0	10	BOR*
3S/2W	10M 2	2146 Grove Way	Chevron USA Products Cc	6/15/1993	122077017	37684393	3S/2W 10M	1/93	0	30	16	6	EXT
3S/2W	10Q 1	22178 N. 6TH STREET	WAYNE ONSTOTT	1/19/1990	122073846		3S/2W 10Q	Jul-89	0	30	0		DOM
3S/2W	10L10	22315 Redwood Rd	Former Beacon Station	7/31/1991	122072700		3S/2W 10L	4/91	69	25	13		MON
3S/2W 3S/2W	10L11 10L12	22315 Redwood Rd 22315 Redwood Rd	Former Beacon Station Former Beacon Station	7/31/1991 7/31/1991	122072700 122072700		3S/2W 10L 3S/2W 10L	4/91 3/91	0 157	0 30	0 22		BOR* MON
35/2W	10L12 10L13	22315 Redwood Rd	Former beacon Station	10/19/1997	122072698		35/2W 10L	5/93	0	28			MON
3S/2W	10L13	22315 Redwood Rd		10/19/1997	122072698		3S/2W 10L	5/93	0	25	16		MON
3S/2W	10L15	22315 Redwood Rd		10/19/1997	122072698		3S/2W 10L	5/93	0	30	21		MON
3S/2W	10L16	22315 Redwood Rd		10/19/1997	122072698	37683925	3S/2W 10L	5/93	0	30	23	2	MON
3S/2W	10L17	22315 Redwood Rd		10/19/1997	122072698	37683925	3S/2W 10L	5/93	0	33	22	2	MON
3S/2W	10L 1	22447 CHARLENE WAY	M. CLIFFORD	8/3/1984	122073861		3S/2W 10L	9/77	0	50	32	8	IRR
3S/2W	10L 7	2416 Grove Way	Chevron	3/28/1991	122071784		3S/2W 10L	6/90	0	12			MON
3S/2W	10L 8	2416 Grove Way	Chevron	3/28/1991	122071784		3S/2W 10L	8/90	0	30	17		MON
3S/2W 3S/2W	10L 9 10G 1	2416 Grove Way 2633 VEGAS AV	Chevron ANNA WEEDEN	3/28/1991	122071784 122070587		3S/2W 10L 3S/2W 10G	8/90 4/77	0 0	30 24	18 7		MON
35/2W 35/2W	3N 1	3098 CASTRO VALLEY BLV		12/18/1984 11/6/1989	122070587		35/2W 10G 35/2W 3N	4/77 Aug-89	0	24 30	, 19		IRR MON
3S/2W	3N 2	3098 CASTRO VALLEY BLV		11/6/1989	122079845		3S/2W 3N	Aug-89	0	20			MON
3S/2W	3N 3	3098 CASTRO VALLEY BLV	ADOBE ASSOCIATES	11/6/1989	122079845		3S/2W 3N	Aug-89	0	25	16		MON
3S/2W	ЗN	3234 Castro Valley Blvd	Mitzi Stockel	7/30/1990	122078169	37695600	3S/2W 3N	Apr-90	0	8	0		BOR
3S/2W	3N 4	3234 Castro Valley Blvd	Mitzi Stockel	7/30/1990	122078169	37695600	3S/2W 3N	Apr-90	0	16	0	2	MON
3S/2W	3N 5	3234 Castro Valley Blvd	Mitzi Stockel	7/30/1990	122078169	37695600	3S/2W 3N	Apr-90	0	16			MON
3S/2W	3N 6	3234 Castro Valley Blvd	Mitzi Stockel	7/30/1990	122078169		3S/2W 3N	Apr-90	0	16			MON
3S/2W	3N 7	3234 Castro Valley Blvd	Mitzi Stockel	7/30/1990	122078169		3S/2W 3N	May-90	0	23	0		MON
3S/2W 3S/2W	3N 8 3P18	3234 Castro Valley Blvd 3369 Castro Valley Blvd	Mitzi Stockel Chevron USA	7/30/1990 8/21/1997	122078169		3S/2W 3N	May-90	0 0	20 20	0 0		MON
35/2W 35/2W	3P18 3P19	3369 Castro Valley Blvd	Chevron USA	8/21/1997 8/21/1997	122075857 122075857		3S/2W 3P 3S/2W 3P	Oct-93 Oct-93	0	20 20	0		MON MON
35/2W	3P20	3369 Castro Valley Blvd	Chevron USA	8/21/1997	122075857		35/2W 3F 3S/2W 3P	Oct-93	0	20	0		MON
3S/2W	3P21	3369 Castro Valley Blvd	Chevron USA	8/21/1997	122075857		3S/2W 3P	Oct-93	0	20	0		MON
3S/2W	3P22	3430 Castro Valley Blvd	Goodyear	12/26/1997	122074248		3S/2W 3P	Dec-96	0	16	14		MON
3S/2W	3P15	3430 Castro Valley Blvd	Goodyear Tire & Rubber C		122074249	37695600	3S/2W 3P	9/94	0	20	0		MON
3S/2W	3P16	3430 Castro Valley Blvd	Goodyear Tire & Rubber C		122074249	37695600	3S/2W 3P	9/94	0	20	0	2	MON
3S/2W	3P17	3430 Castro Valley Blvd	Goodyear Tire & Rubber C		122074249		3S/2W 3P	9/94	0	20	0		MON
3S/2W	3P 1	3495 Castro Valley Blvd	Ted Simas	6/4/1990	122072910		3S/2W 3P	2/90	176	19			MON
3S/2W	3P26	3495 Castro Valley Blvd	Xtra Oil Company	10/27/1998	122072894		3S/2W 3P	8/97	0	20	0		MON BOD*
3S/2W 3S/2W	3P 3P 2	3495 Castro Valley Blvd. 3495 Castro Valley Blvd.	Ted Simas Ted Simas	6/4/1990 6/4/1990	122072910 122072910		3S/2W 3P 3S/2W 3P	2/90 2/90	0 176	0 18	0 15		BOR*
35/2W 35/2W	3P 2 3P 3	3495 Castro Valley Blvd.	Ted Simas	6/4/1990	122072910		35/2W 3P 35/2W 3P	2/90 2/90	176	18	15		MON MON
35/2W 35/2W	3P23	3519 Castro Valley Blvd.	PB Oil Company	2/17/1990	122072910		3S/2W 3P	2/90 7/95	0	30	10		MON
3S/2W	3P24	3519 Castro Valley Blvd	PB Oil Company	2/17/1998	122072089		3S/2W 3P	7/95	0	30	10		MON
3S/2W	3P25	3519 Castro Valley Blvd	PB Oil Company	2/17/1998	122072089		3S/2W 3P	7/95	0	20	8		MON
3S/2W	3P10	3519 Castro Valley Blvd.	BP Oil Company ESE-1/N	4/30/1993	122072125		3S/2W 3P	9/92	0	30	20		MON
	0044	2510 Costro Vollov Blud	RD Oil Company ESE 2/	4/20/4002	100070105	37605334	3S/2W 3P	0/00	0	30	22	0	MON
3S/2W	3P14	3519 Castro Valley Blvd.	BP Oil Company ESE-2/N	4/30/1993	122072125	37095221	33/2W 3F	9/92	0	30	22	2	MON

Tr	Section	Address	<u>Owner</u>	Update	Xcoord	Ycoord	Tsrqq	Drilldate	Elevat ion	Totald epth	Water depth	<u>Diam</u> eter	Use
3S/2W	3P13	3519 Castro Valley Blvd.	BP Oil Company ESE-4/N	4/30/1993	122072125	37695221	3S/2W 3P	9/92	0	25	15	2 M	ON
3S/2W	3P11	3519 Castro Valley Blvd.	BP Oil Company ESE-2/M	4/30/1993	122072125		3S/2W 3P	9/92	0	30	22	2 M	
3S/2W	3L 2	3533 JAMISON WAY	R. NAHAS CO.	8/2/1984	122072120	37698477		?	0	25	9	5 DE	
3S/2W	3L 3	3533 JAMISON WAY	R. NAHAS CO.	8/2/1984	122074016		3S/2W 3L	?	0	20	0	5 DE	
3S/2W	3L 1	3559 JAMISON WAY	R. NAHAS CO.	8/2/1984	122074016		3S/2W 3L	Dec-75	0	56	9	0 DE	
3S/2W	10A10	3889 Castro Valley Blvd	VIP Service (MW1)	1/18/1994	122065538		3S/2W 10A	Nov-93	181	20	12	2 M	
3S/2W	10A11	3889 Castro Valley Blvd	VIP Service (MW2)	1/18/1994	122065538		3S/2W 10A	Nov-93	180	20	12	2 M	
3S/2W	10A12	3889 Castro Valley Blvd	VIP Service (MW3)	1/18/1994	122065538		3S/2W 10A	Nov-93	179	20	13	2 M	
3S/2W	10A 1	3940 CASTRO VALLEY BLV	· · · ·	4/30/1986	122063498	37692546	3S/2W 10A	Dec-85	0	30	20	2 M	ON
3S/2W	10A 7	3940 Castro Valley Blvd	Texaco Env Serv MW-6	9/24/1992	122063314	37692436	3S/2W 10A	1/92	187	38	21	4 M	ON
3S/2W	10A 8	3940 Castro Valley Blvd	Texaco Env Serv MW-7	9/24/1992	122063314	37692436	3S/2W 10A	1/92	190	38	30	4 M	ON
3S/2W	10A 9	3940 Castro Valley Blvd	Texaco Env Serv MW-{	9/24/1992	122063314	37692436	3S/2W 10A	1/92	194	40	29	4 M	ON
3S/2W	10A 3	3940 CASTRO VALLEY BLV	ITEXACO REF & MRKTG I	6/3/1988	122063498	37692546	3S/2W 10A	Dec-87	0	38	23	4 M	ON
3S/2W	10A	3940 CASTRO VALLEY BLV	ITEXACO REF & MRKTG I	6/3/1988	122063498	37692546	3S/2W 10A	Nov-87	0	35	31	0 BC	ЭR
3S/2W	10A 2	3940 CASTRO VALLEY BLV	ITEXACO REF & MRKTG I	6/3/1988	122063498	37692546	3S/2W 10A	Dec-87	0	45	28	4 M	ON
3S/2W	10A 4	3940 CASTRO VALLEY BLV	ITEXACO REF & MRKTG I	6/3/1988	122063498	37692546	3S/2W 10A	Dec-87	0	40	24	4 M	ON
3S/2W	10A 5	3940 Castro Valley Blvd	TEXACO REF.& MRKTG	7/31/1990	122063498	37692546	3S/2W 10A	Apr-90	0	45	30	4 M	ON
3S/2W	10A 6	3940 Castro Valley Blvd	TEXACO REF.& MRKTG	7/31/1990	122063498	37692546	3S/2W 10A	Apr-90	0	45	33	4 M	ON
3S/2W	10A 2	3940 Castro Valley Blvd.	Lakeshore Financial	7/6/1990	122063498	37692546	3S/2W 10A	4/89	0	20	0	4 DE	ES
3S/2W	10A 4	3940 Castro Valley Blvd.	Lakeshore Financial	7/6/1990	122063498	37692546	3S/2W 10A	4/90	0	20	0	4 DE	ES
3S/2W	3K 2	4057 STEVENS ST	R. FORQUEN	8/2/1984	122069571	37698477	3S/2W 3K	?	0	70	0	8 IR	R
3S/2W	3A 2	4589 JAMES ST	H. PERTO	1/18/1985	122065027	37705271	3S/2W 3A	9/77	0	48	8	8 IR	R
3S/2W	3J 1	9263 EDWARD LANE	DOROTHY WIXON	8/2/1984	122065075	37698477	3S/2W 3J	7/53	249	53	0	6 IR	R
3S/2W	10B 1	9318 CASTRO VALLEY BLV	IWEINKE	8/3/1984	122069416	37691156	3S/2W 10B	9/49	0	79	0	0 ?	
3S/2W	10P 1	B & A ST	BENNCHAMP	8/3/1984	122073861	37680376	3S/2W 10P	9/46	125	512	0	10 D0	MC
3S/2W	3Q 2	BELOW MULFORD GARDE	CURTIS	8/2/1984	122069571	37694933	3S/2W 3Q	2/57	0	85	8	8 ?	
3S/2W	3F 1	FOREST AVE	WOLF	8/2/1984	122141000	37701450	3S/2W 3F	6/49	0	51	0	8 <mark>D</mark> (MC
3S/2W	3Q 1	MULFORD GARDEN	CURTIS OR BREED	8/2/1984	122158600	37690150	3S/2W 3Q	28-Dec	0	87	8	8 ?	
3S/2W	10M 1	ORCHARD ST	CARRIGAN	8/3/1984	122078567	37683907	3S/2W 10M	?	0	56	0	0 ?	
3S/2W	10L 2	REDWOOD RD & GROVE V	CHEVRON SERVICE STA	1/21/1987	122072600	37684200	3S/2W 10L	Oct-86	97	30	17	3 M	ON
3S/2W	10L 3	REDWOOD RD & GROVE V	CHEVRON SERVICE STA	1/21/1987	122072600	37684200	3S/2W 10L	Oct-86	96	31	16	3 M	ON
3S/2W	10L 4	REDWOOD RD & GROVE V	CHEVRON SERVICE STA	1/21/1987	122072600	37684200	3S/2W 10L	Oct-86	98	30	18	3 M	ON
3S/2W	10L 5	REDWOOD RD & GROVE V	CHEVRON SERVICE STA	1/21/1987	122072600	37684200	3S/2W 10L	Oct-86	100	30	17	3 M	ON
3S/2W	10H 2	UNKNOWN	UNKNOWN	3/14/1988	122065008	37687377	3S/2W 10H	May-77	0	30	5	0 IR	R
3S/2W	10J 1	UNKNOWN	UNKNOWN	3/14/1988	122064990	37683907	3S/2W 10J	Jul-76	0	365	208	10 D0	MC

Appendix D

Castro Valley Creek Pictures and Construction Details



Plate 1: Looking downstream from the Castro Valley Boulevard



Plate 2: Looking upstream towards the Castro Valley Boulevard

