



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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- Appendix D: Castro Valley Creek Pictures and Construction Details

#### 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.

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#### 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 <sup>1</sup>/<sub>2</sub>-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 <sup>1</sup>/<sub>2</sub>-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**



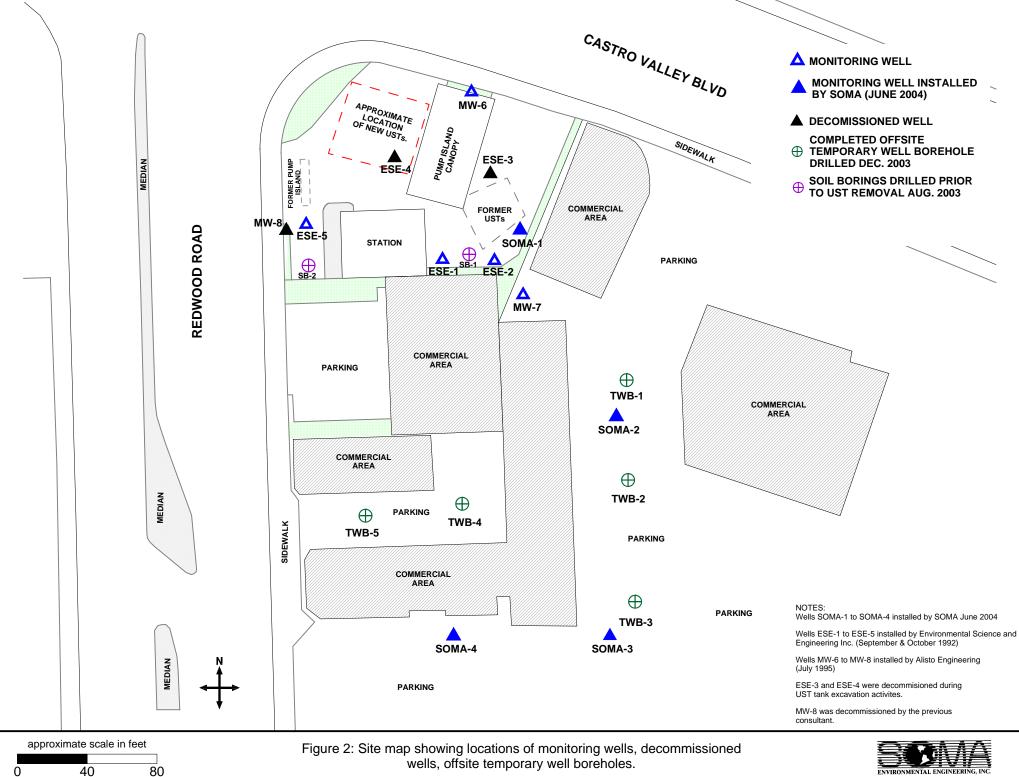


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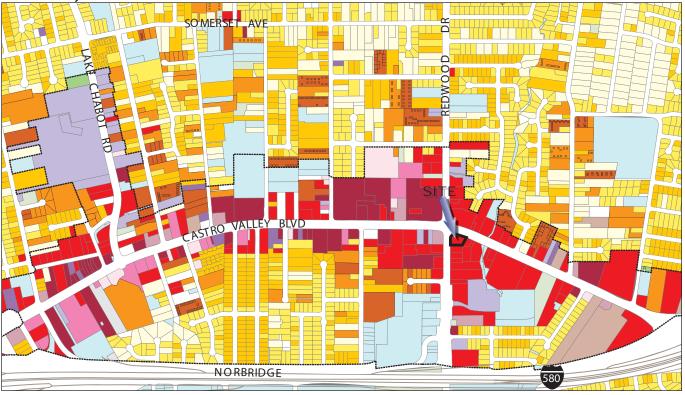
approximate scale in feet 60 120

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

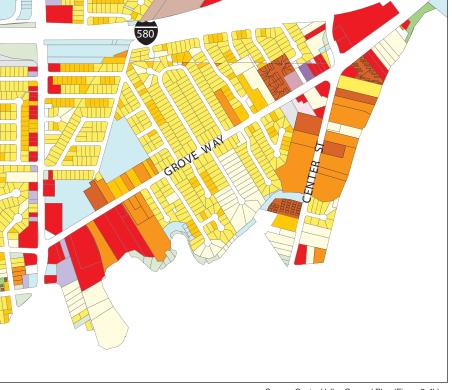
Light Industrial & Storage

Public/Institutional

Park/Open Space

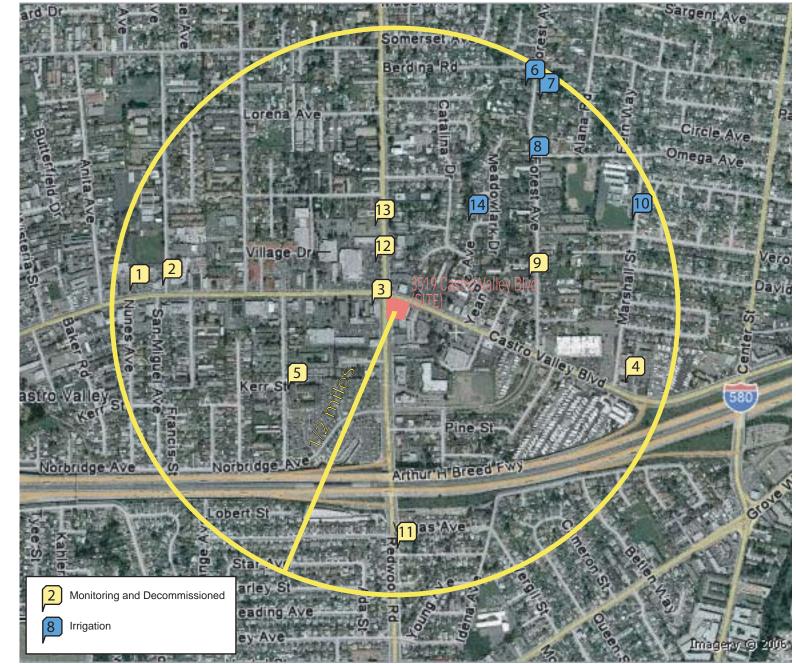
Other/Unclassified

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.)

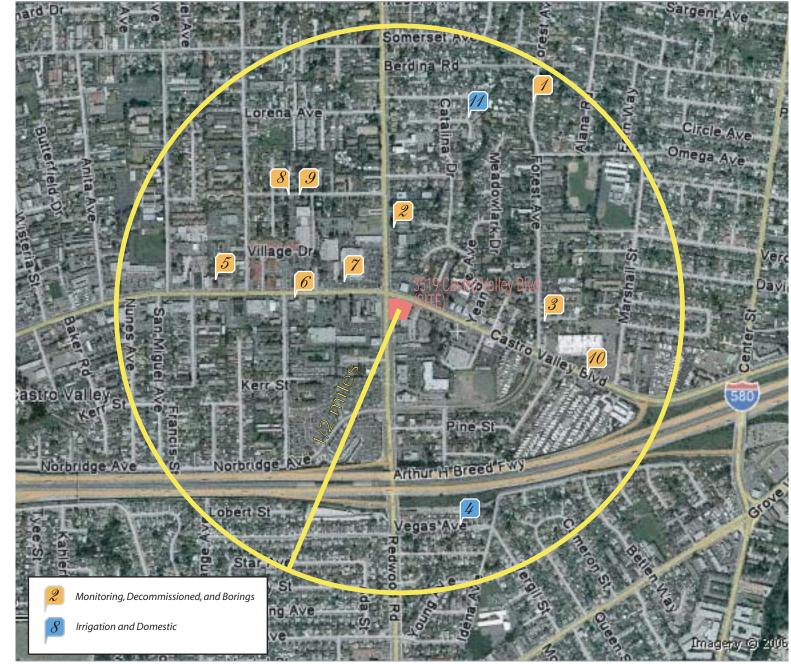
| approx | imate scale |
|--------|-------------|
|        |             |
| 0      | .25 mile    |

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

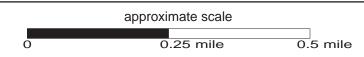
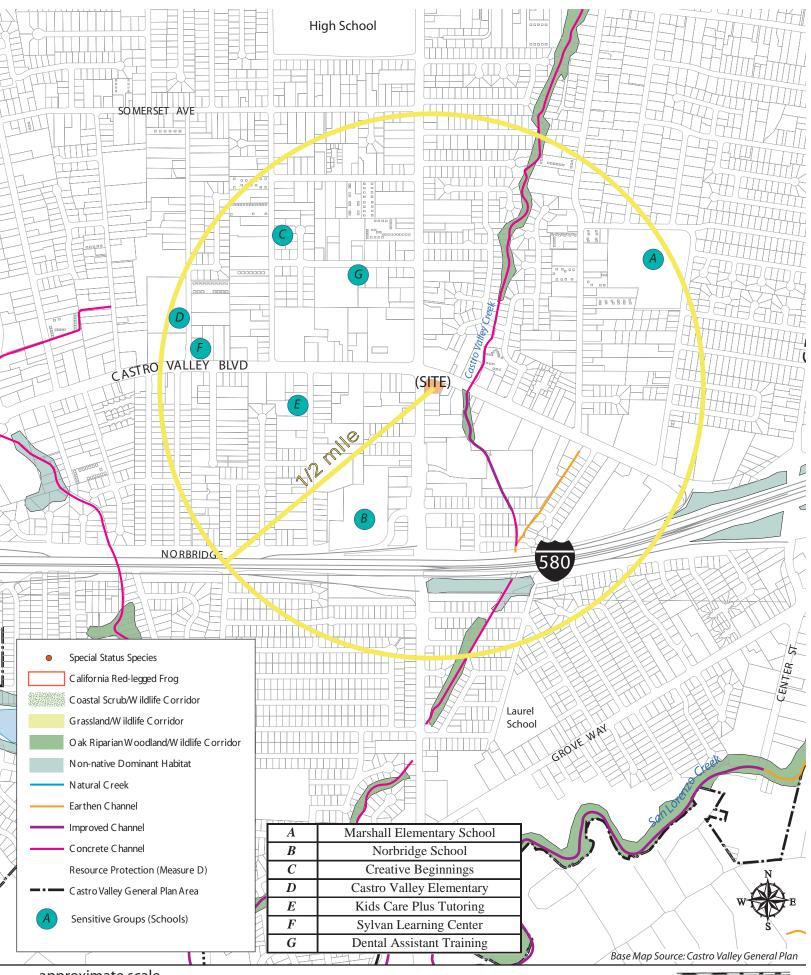


Figure 5: Sensitive Receptor Survey Map Based on the Data Obtained from the Alameda County Public Works Agency



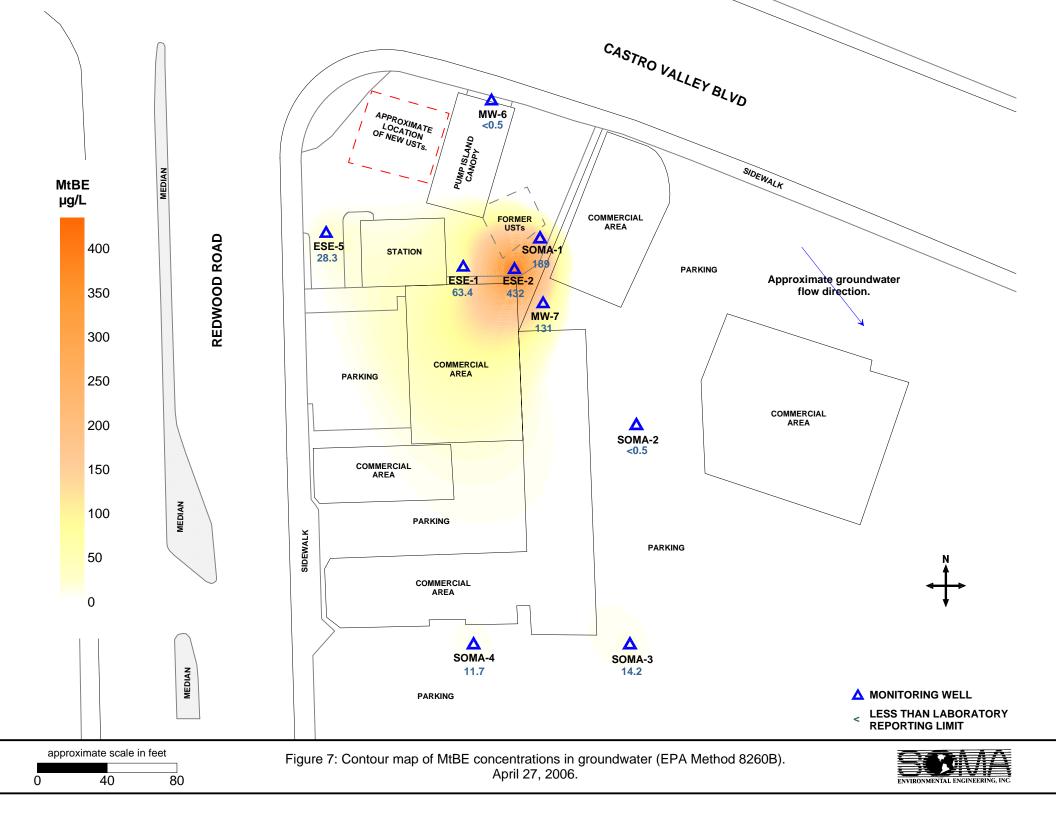


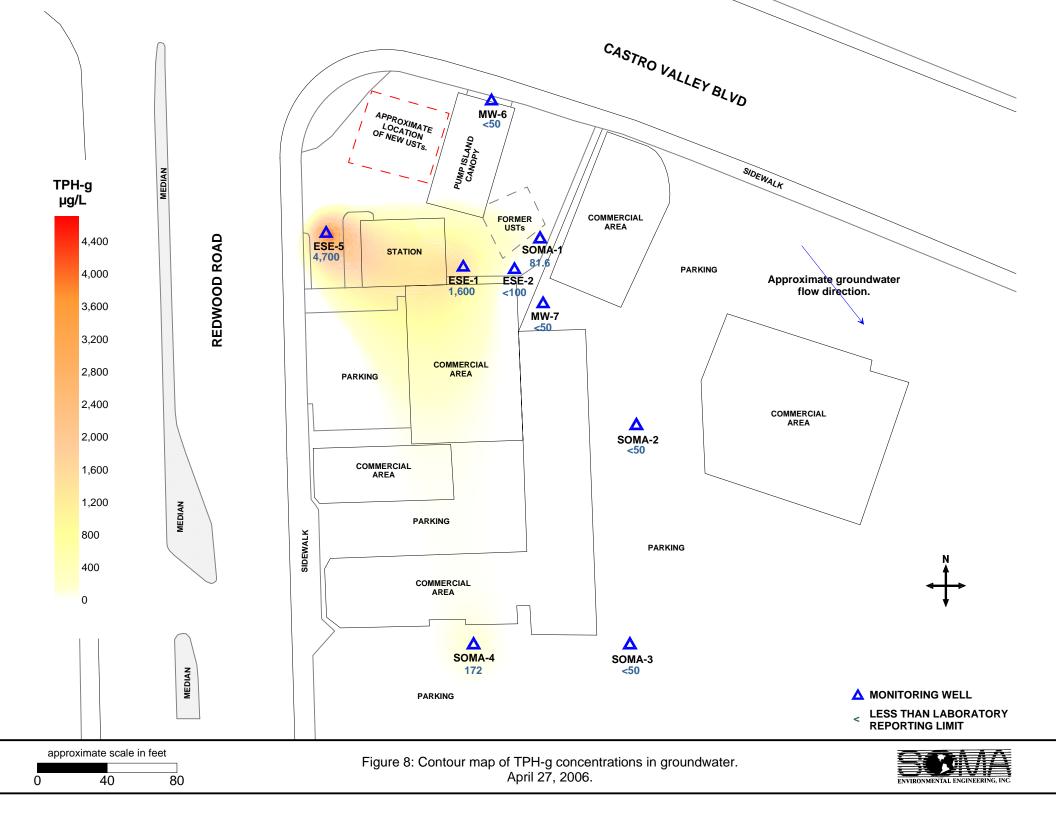
approximate scale

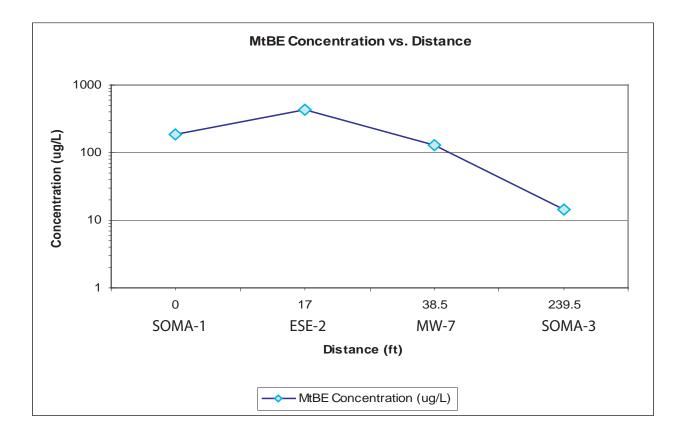
0.25 miles

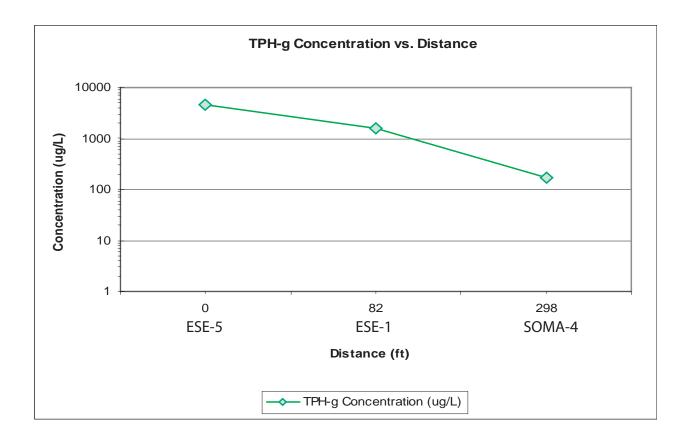
Figure 6: Receptor Survey of Sensitive Groups and Environmentls

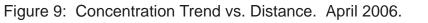














## Tables

#### 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

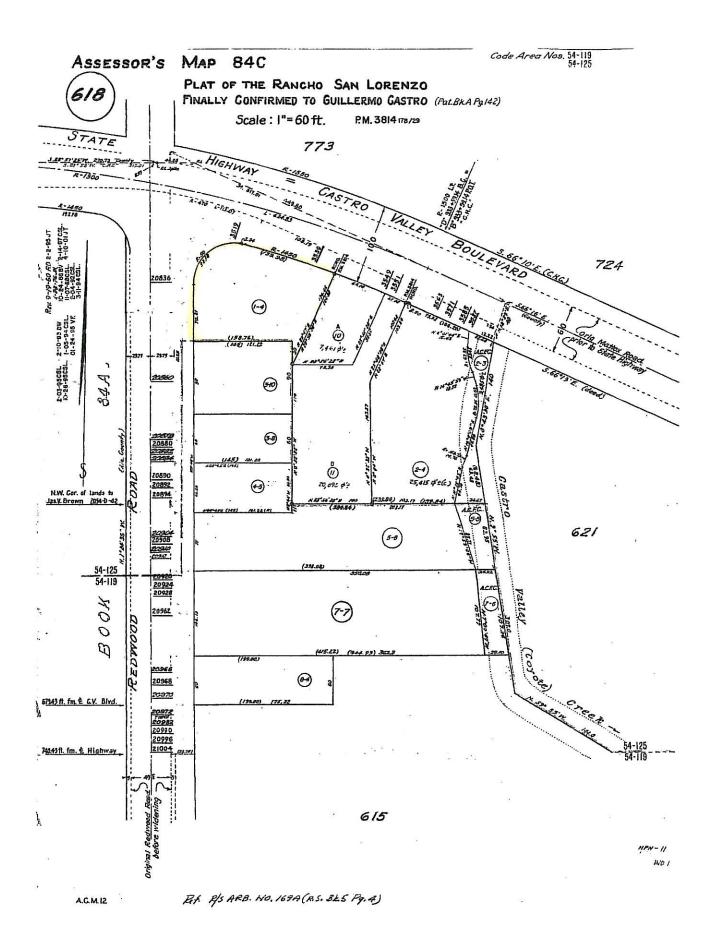
| <u>Map</u><br>ID | <u>Well</u><br>Count | Address                 | <u>Owner</u>              | <u>Drilldate</u> | <u>TD</u> | <u>Diam</u> | <u>Use</u> |
|------------------|----------------------|-------------------------|---------------------------|------------------|-----------|-------------|------------|
|                  |                      |                         |                           |                  |           |             |            |
| 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*       |

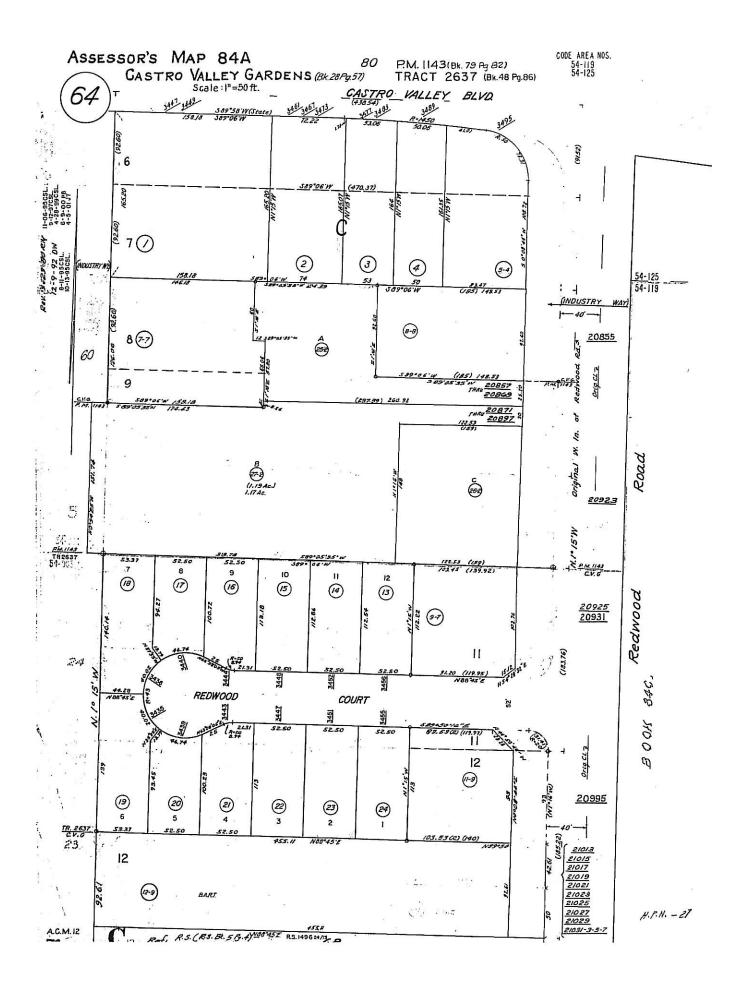
#### Note:

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

| WATER   | WELL DRILLE  | RS REPC   | nrt<br>_/ऽ व्   | D - 388<br>Do Not Fill In<br>State Well No   |
|---|--|---|---|--|
|   | - :  |   |   | tugou anna a su a su a su a su a su a su a s   |
| 7) Perforations:<br>Type of perforance upon   | mills  |   |   | ······   |
| Perfornted. 40  | ft. toZQ   | ft. Ho  | m 18×3  | No. of holes 4 - Covery  |
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| **  | P P  |   | ····  | ** **  |
|   |  |   |   |  |
| (4) Wane levels:  |  | (\$) Weli pu  |   |  |
| <ul> <li>Depth as which water<br/>first encountered</li> </ul>                              | 28   | Depth to  | urane when new star   | boen   |
| Depth to water  | 0.0  | G.P.M. a  | beginning of test.  | · · · · · · · · · · · · · · · · · · ·  |
| before performing   | 82   |   | a from standing in  |  |
| Dopth to water<br>after performing  | 28 "   |   |   |  |
| Note any change in we   | ter level while delling  | Leagth of   | dave torend   | <u> </u>   |
| aa  | · · · · · · · · · · · · · · · · · · ·  |   | nice of wroter<br>comme in writer? [  |  |
|   |  |   | THERE IS WALKED   | 1 19 ML 140  |
|   |  |   |   |  |
| 18) Generali  | •  |   |   |  |
| 19) Geoerali<br>Waa wil sowel pecke   | 0 <u>10</u> 800  | of micht  |   | sickness of park   |
| Was wall gravel packet<br>Was a surface excitance   | wal provided   | 2   | 'T  |  |
| Was wall gravel packet<br>Was a surface staticary<br>Ways any strate stated                 | d?Size<br>wal provided?Size<br>squizet pollution? [] Yet [   | 2   |   |  |
| Was wall gravel packed<br>Was a surface emitary<br>Way any strate soled<br>Strate soled     | and provided?  | j<br>ij->to li yes, su<br>s, arrach copy.<br>s, artach copy.  |   |  |
| Was wall gravel packed<br>Was a surface excitacy<br>Ways any strate staled<br>Strate scaled | and provided?  | 9-240 If yes, set<br>a, attach copy.<br>a, attach copy.   |   | FOR OFFICIAL USE ONE   |
| Was wall gravel packed<br>Was a surface emitary<br>Way any strate soled<br>Strate soled     | and provided?  | g-tto lt yes, str<br>s, arrach copy.<br>m, attach copy.   | nck dotsänd descrip<br>) Time of work<br>Vork started de  | FOR OFFICIAL USE ONE   |
| Was wall gravel packed<br>Was a surface senitary<br>Way any strate seeled<br>Strate seeled  | van] provided?   | g attach copy.<br>a, attach copy.<br>a, attach copy.<br>(12   | nck dotsänd descrip<br>) Time of work<br>Vork started de  | FOR OFFICIAL USE ONE   |
| Was wall gravel packed<br>Was a surface senitary<br>Way any strate seeled<br>Strate seeled  | van provided?  | getto 16 yes, ser<br>a, arrach copy.<br>n, artach copy.<br>(12  | nch dotsind descrip<br>) Time of work<br>Wych started de<br>Dote of this rep  | FOR OFFICIAL USE ONE<br>to Complete data 18<br>to Complete data 18<br>to Sayof 18-53   |
| Was wall gravel packed<br>Was a surface senitary<br>Way any strate seeled<br>Strate seeled  | van provided?  | getto 16 yes, ser<br>a, arrach copy.<br>a, artach copy.<br>(12  | nch dotsind descrip<br>) These of work<br>Wyck started de<br>Date of this rep<br>WELL DRILLE<br>This well   | FOR OFFICIAL USE ONE<br>to Chang 3 Completed data 18<br>ac Sanger 18-53<br>RS STATEMENT:<br>an diffed ander my parallellow an  |
| Was wall gravel packed<br>Was a surface senitary<br>Way any strate seeled<br>Strate seeled  | veal provided?   | getto 16 yes, ser<br>a, arrach copy.<br>a, artach copy.<br>(12<br>(12   | nch dotsind descrip<br>) These of work<br>Wyck started de<br>Date of this rep<br>WELL DRILLE<br>This well   | FOR OFFICIAL USE ONE<br>to Complete data 18<br>to Complete data 18<br>to Sayof 18-53   |
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| Was wall gravel packed<br>Was a surface senitary<br>Way any strate seeled<br>Strate seeled  | Section No.<br>Section No.<br>Section No.<br>Township.<br>Range.<br>Base & Meridian.<br>Show location of<br>time, thus (X)<br>Distances to section<br>well, N or S.<br>and E or W.<br>Show location  | Tell in Sec-<br>fines from<br>fr.<br>of nearest   | nch dotsiled descrip<br>) These of work;<br>Wyck started de<br>Date of this sep<br>WELL DRILLE<br>This well a<br>report is true to<br>[STORTED] Re- | FOR OFFICIAL USE ONE<br>refling 3 Completed data 18<br>we Samp 18-15 3<br>RS STATEMENT:<br>we drilled ander my paralletten an<br>the best of my knowledge and ballet<br>A. D. Lee & Sales<br>with These  |
| Was wall gravel packed<br>Was a surface senitary<br>Way any strate seeled<br>Strate seeled  | Section No.<br>Section No.<br>Township.<br>Base & Meridian of X<br>Show location to X<br>Show lo | yell in Sec-<br>fr.<br>of nearest<br>w (O)  | nch dotsilad descrip<br>) Time of work<br>Wych started da<br>Date of this step<br>WELL DRILLE<br>This well a<br>report is true to<br>[STORTED]      | tion.<br>FOR OFFICIAL USE ONE<br>to Complete data 18<br>The set of my knowledge and balled<br>A. D. Level color<br>with the set of my knowledge and balled<br>A. D. Level color<br>with the set of my knowledge and balled<br>A. D. Level color<br>with the set of my knowledge and balled<br>A. D. Level color<br>with the set of my knowledge and balled<br>A. D. Level color<br>with the set of my knowledge and balled |
| Was wall gravel packed<br>Was a surface senitary<br>Way any strate seeled<br>Strate seeled  | Section No.<br>Section No.<br>Section No.<br>Township.<br>Range.<br>Base & Meridian.<br>Show location of<br>time, thus (X)<br>Distances to section<br>well, N or S.<br>and E or W.<br>Show location  | A strack copy.<br>a, attack copy.<br>a, attack copy.<br>a, attack copy.<br>(12<br>(12<br>(12<br>(12<br>(12<br>(12<br>(12<br>(12 | nch dotsilad descrip<br>) Time of work<br>Wych started da<br>Date of this step<br>WELL DRILLE<br>This well a<br>report is true to<br>[STORTED]      | FOR OFFICIAL USE ONE<br>refling 3 Completed data 18<br>we Samp 18-15 3<br>RS STATEMENT:<br>we drilled ander my paralletten an<br>the best of my knowledge and ballet<br>A. D. Lee & Sales<br>with These  |

¥ / 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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|   |  | DEPARTMENT OF WATER RESOURCES   |          |        | 31-     |  |
|---|--|---|----------|--------|---------|--|
|   | · · · · · · · · · · · · · · · · · · ·      | DEPARTMENT OF FUELIC WORKS  |          | 1/2    | 108     |  |
|   | ·  | WELL LOG  | · -      |        | 01-1390 |  |
|   | ··· <b>- · ···</b>                         |   | ·        | Ľ.,    |         | Ac în                                  |
| LOGATION  | •  |   |          |        |         | ,                                      |
| www. Kerk   | in Survey                                  | ADDENNE FOREST EVE. Gentl   | to Valle |        |         | <u>ک ع</u> لج                          |
|   | De Ludchi                                  |   |          | -      |         |  |
|   | • •  |   |          |        |         | _                                      |
| AITE OF CAUING DE   | :  |   |          |        |         |  |
| PERFORMATIONS.  | 62-78                                      |   |          |        |         |  |
| WATER LEVEL POPE  | Na Perpetatin                              | a   |          |        | 1       | ·                                      |
| Үрт бата жысы   |  |   | Roum     | I BUNL |         | -                                      |
| OTHER DATA AVAIL  | ARLE: WATER G                              | TVID, REGISRID  | •        |        |         |  |
| •   |  |   | •        |        |         |  |
| *******   | · . ·                                      | DATUM. BOURDE OF MERCHANDA  | <u> </u> | • .    |         |  |
|   | BLEV. OF                                   | · · · · · · · · · · · · · · · · · · ·   |          |        |         |  |
| DEPTH   | BLEV. CH<br>BOTTOM<br>COTTOM<br>CH STRATUM | MATERIAL  | 껜        | nijio  |         |  |
|   | BLEV, OF<br>BOTTOM<br>OF STRATUM           | · · · · · · · · · · · · · · · · · · ·   |          | 1      |         |  |
| DEPTH   |  | MATERIAL  |          | 1      |         | · · · · · · · · · · · · · · · · · · ·  |
| рерти.<br>0 = 5<br>5 = 15   |  | MATERIAL<br>  |          | niĝo   |         | ······································ |
| ынн<br>0 = 5<br>5 - 15<br>15 - 24   |  | MATERIAL  |          |        |         |  |
| рерти.<br>0 = 5<br>5 = 15   |  | MATERIAL<br>  |          |        |         |  |
| ыртн.<br>0 = 5<br>5 - 15<br>15 - 24<br>24 - 29                                  |  | MATERIAL<br>.soii<br>.yellow oley<br>grewel<br>yellow oley  |          |        |         |  |
| DEPTH<br>D = 5<br>5 - 15<br>15 - 24<br>24 - 29<br>29 - 55                       |  | MATERIAL<br>.soii<br>.pallos oleg<br>grewél<br>yallos oleg<br>brown oleg                                  |          |        |         |  |
| ыртн.<br>0 = 5<br>5 - 15<br>15 - 24<br>24 - 29                                  |  | MATERIAL<br>.soii<br>.yellow oley<br>grewel<br>yellow oley  |          |        |         |  |
| berty = 5 $5 = 15$ $15 = 24$ $24 = 29$ $29 = 55$ $55 = 56$                      |  | MATERIAL<br>.soil<br>.gallos oley<br>gravel<br>yallos oley<br>brown elsy<br>tand gravel                   |          |        |         |  |
| DEPTH<br>D = 5<br>5 - 15<br>15 - 24<br>24 - 29<br>29 - 55                       |  | MATERIAL<br>.soil<br>.gullos olay<br>guveil<br>yullos olay<br>brown olay<br>brown olay<br>sand and gravel |          |        |         |  |
| berty = 5 $5 = 15$ $15 = 24$ $24 = 29$ $29 = 55$ $55 = 56$                      |  | MATERIAL<br>.soil<br>.gallos oley<br>gravel<br>yallos oley<br>brown elsy<br>tand gravel                   |          |        |         |  |
| berty = 5 $5 = 15$ $15 = 24$ $24 = 29$ $29 = 55$ $55 = 56$                      |  | MATERIAL<br>.soil<br>.gullos olay<br>guveil<br>yullos olay<br>brown olay<br>brown olay<br>sand and gravel |          |        |         |  |
| berty = 5 $5 = 15$ $15 = 24$ $24 = 29$ $29 = 55$ $55 = 56$                      |  | MATERIAL pallos olar gravel pallos olay bross olay said and gravel  |          |        |         |  |
| berty = 5 $5 = 15$ $15 = 24$ $24 = 29$ $29 = 55$ $55 = 56$                      |  | MATERIAL<br>.soil<br>.pallos oley<br>gravél<br>yallos oley<br>brows clay<br>setté end gravel<br>shale     |          |        |         |  |
| berty = 5 $5 = 15$ $15 = 24$ $24 = 29$ $29 = 55$ $55 = 56$                      |  | MATERIAL<br>.eoil<br>.pallos oley<br>grewil<br>yallos oley<br>brown clay<br>tend grewal<br>shale          |          |        |         |  |
| berty = 5 $5 = 15$ $15 = 24$ $24 = 29$ $29 = 55$ $55 = 56$                      |  | MATERIAL  |          |        |         |  |
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| berty = 5 $5 = 15$ $15 = 24$ $24 = 29$ $29 = 55$ $55 = 56$                      |  | MATERIAL  |          |        |         |  |
| DEPTH<br>0 = 5<br>5 = 15<br>15 = 24<br>24 = 29<br>29 = 55<br>55 = 66<br>66 = 70 |  | MATERIAL  |          |        |         |  |
| DEPTH<br>0 = 5<br>5 = 15<br>15 = 24<br>24 = 29<br>29 = 55<br>55 = 66<br>66 = 70 |  | MATERIAL  |          |        |         |  |

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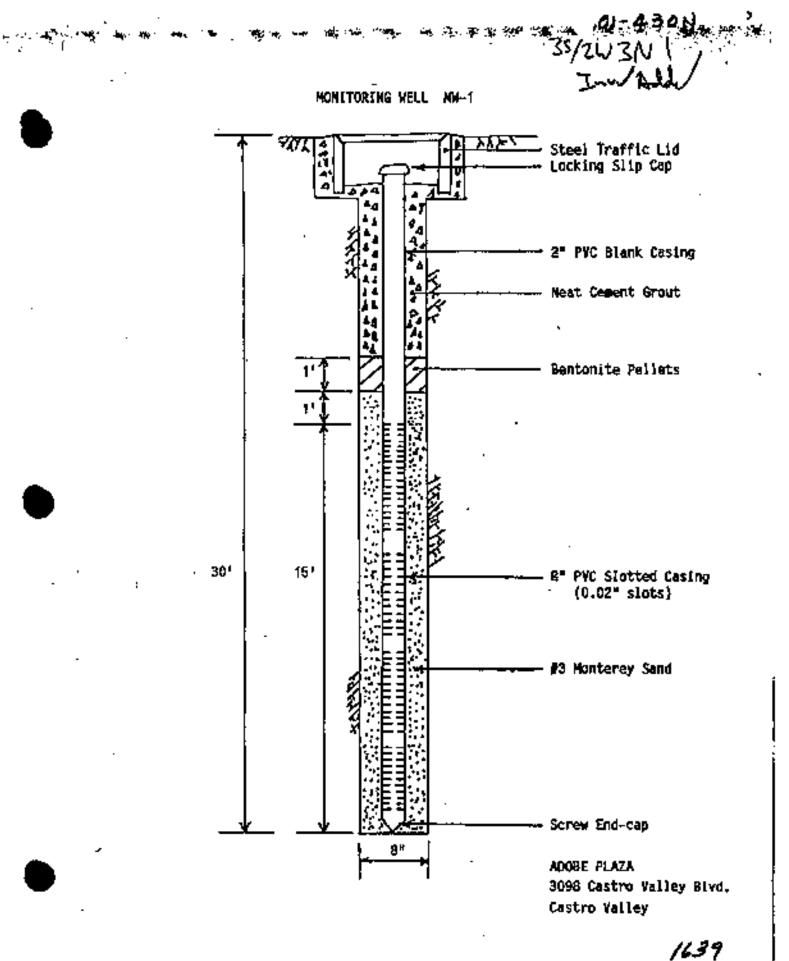
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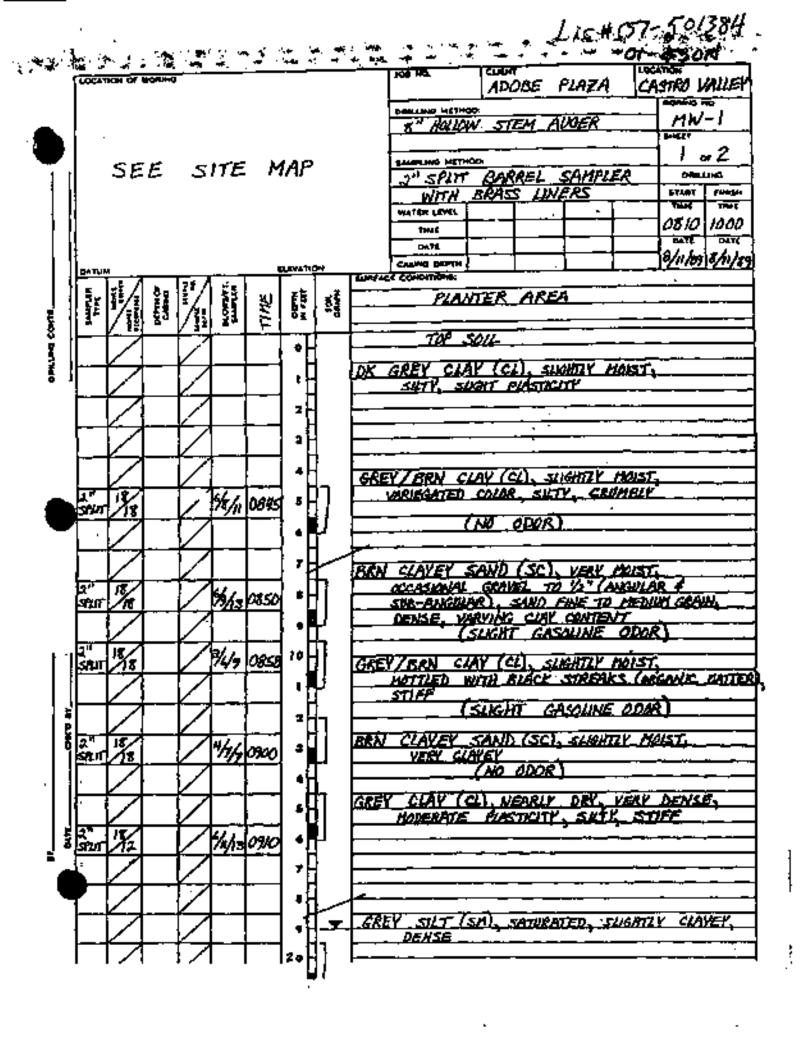
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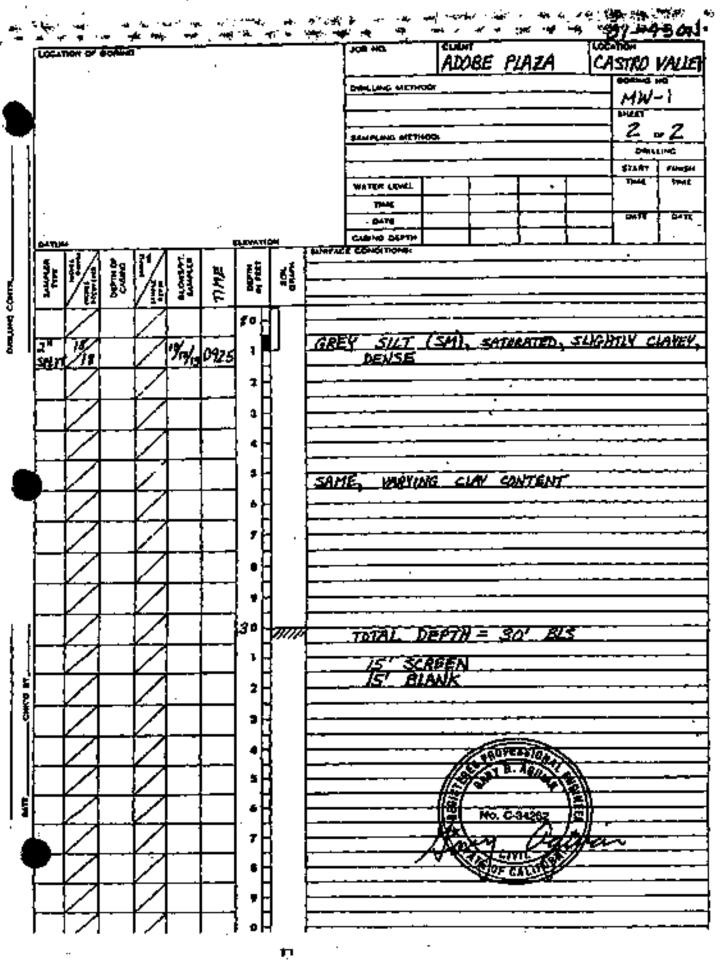
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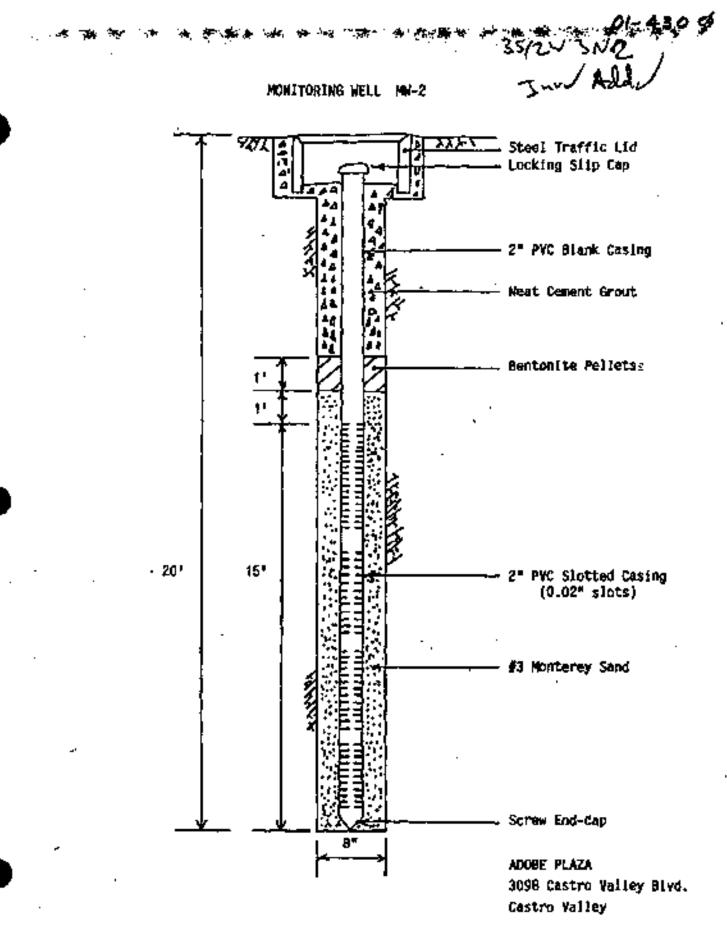
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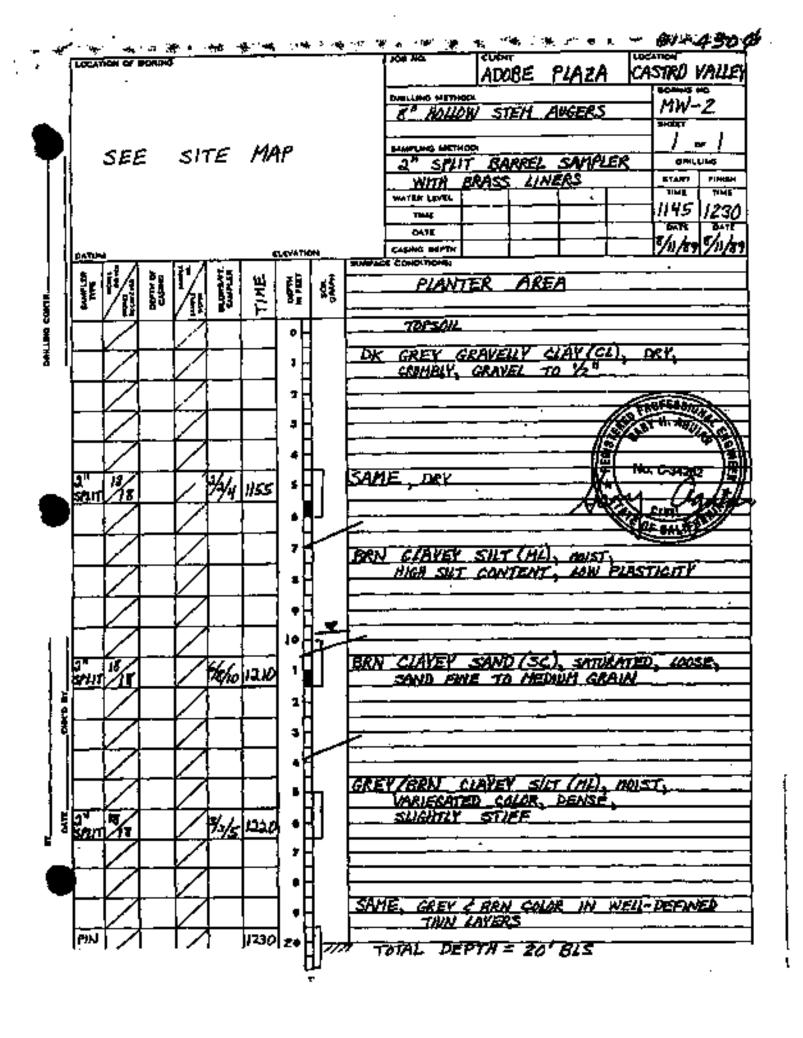
| oounty S. Ale                         | aben               | DIVISION OF WATER RESOURCES<br>DEVICTORY OF PUBLIC WORKS |          | <u> 5/2w-3</u>    |                                       |
|---------------------------------------|--------------------|--|----------|-------------------|---------------------------------------|
| -                                     |                    |  |          | 39/21-1<br>01-139 | <u>,</u>                              |
| <u>.</u>                              |                    | WELL LOG   | i        |                   | •                                     |
| LOCATION 2                            | 0551 Farest        | Avenue, Cartro Vallay                                    |          | <u> </u>          | 221                                   |
|                                       |                    |  |          |                   | 1                                     |
|                                       | loward W, Bu       | rkhert   | ·        | -                 | R                                     |
| DELLES JY B                           | aaatt              |  |          |                   |                                       |
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| dist of casing b                      |                    | with the wa  | TER AT   |                   |                                       |
| PERFORATIONS.                         |                    |  |          |                   |                                       |
| WATER CEVEL 10                        |                    |  |          | •                 |                                       |
| TEST DATA: DISC                       | 44gas 8, p. n      | \$RAWDOWN 77   |          | 61.54             |                                       |
| • •                                   |                    |  |          |                   |                                       |
| OTRIR DATA AVAS                       |                    | IVEL RECORD. ANALYM                                      | •        |                   |                                       |
|                                       |                    | TATUM BOUNDE OF INFORMATION                              | ARG .    | 0 2000            |                                       |
| , KIPERG                              | ELEV. OF<br>ROTTON | HATSHAL  | ТНІНЕВІ, | -                 |                                       |
|                                       | 0 - 3              |  |          | <b>*</b>          |                                       |
|                                       | 3 - 32             | yellow olay (eendy)                                      |          |                   | :                                     |
|                                       | 32 - 57            |  |          | ··-               |                                       |
|                                       |                    | WL 14  |          |                   |                                       |
|                                       | +                  | Parf 6' black at bottom                                  |          |                   |                                       |
|                                       |                    |  |          |                   |                                       |
|                                       |                    | remainder perf   |          |                   |                                       |
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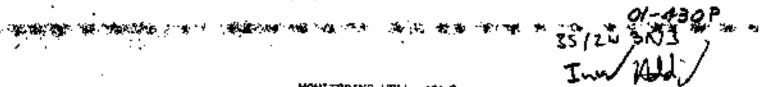


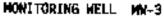


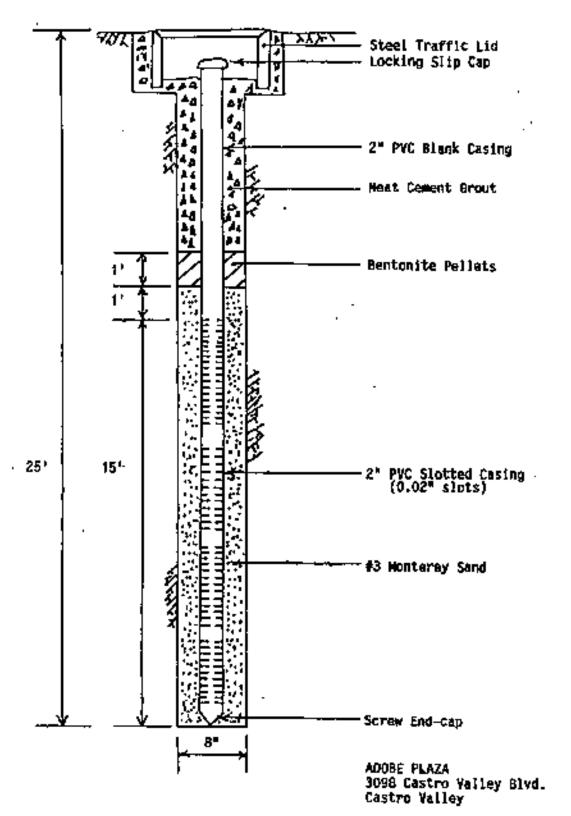


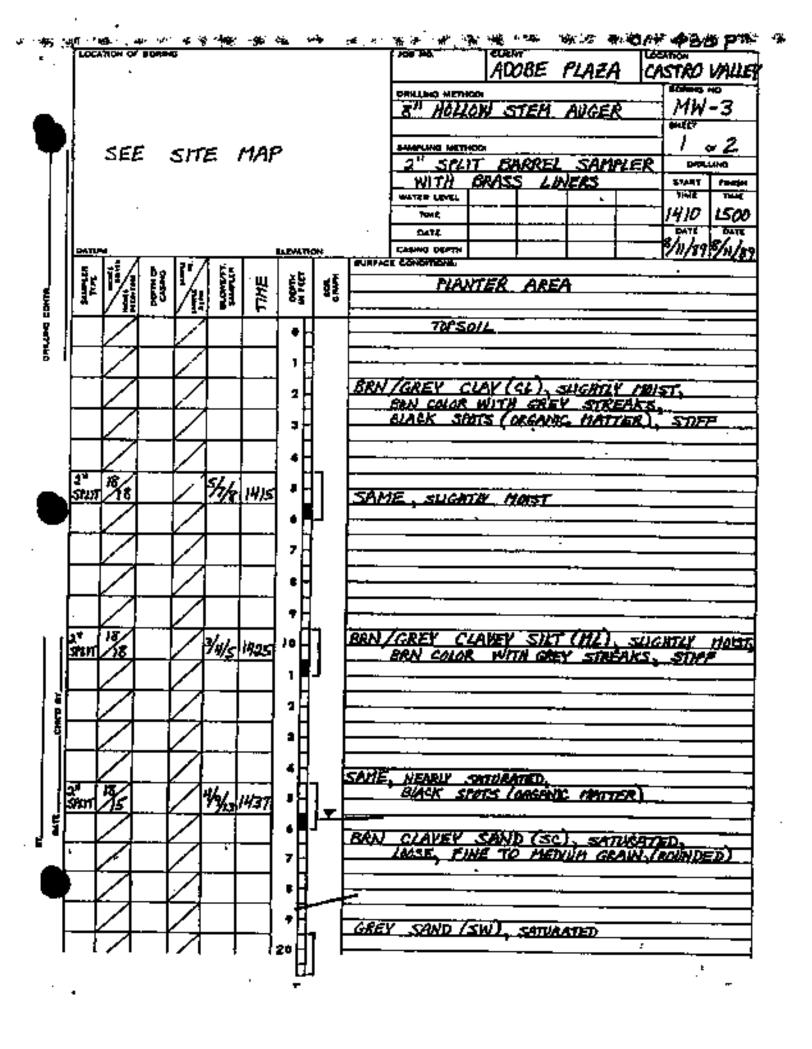


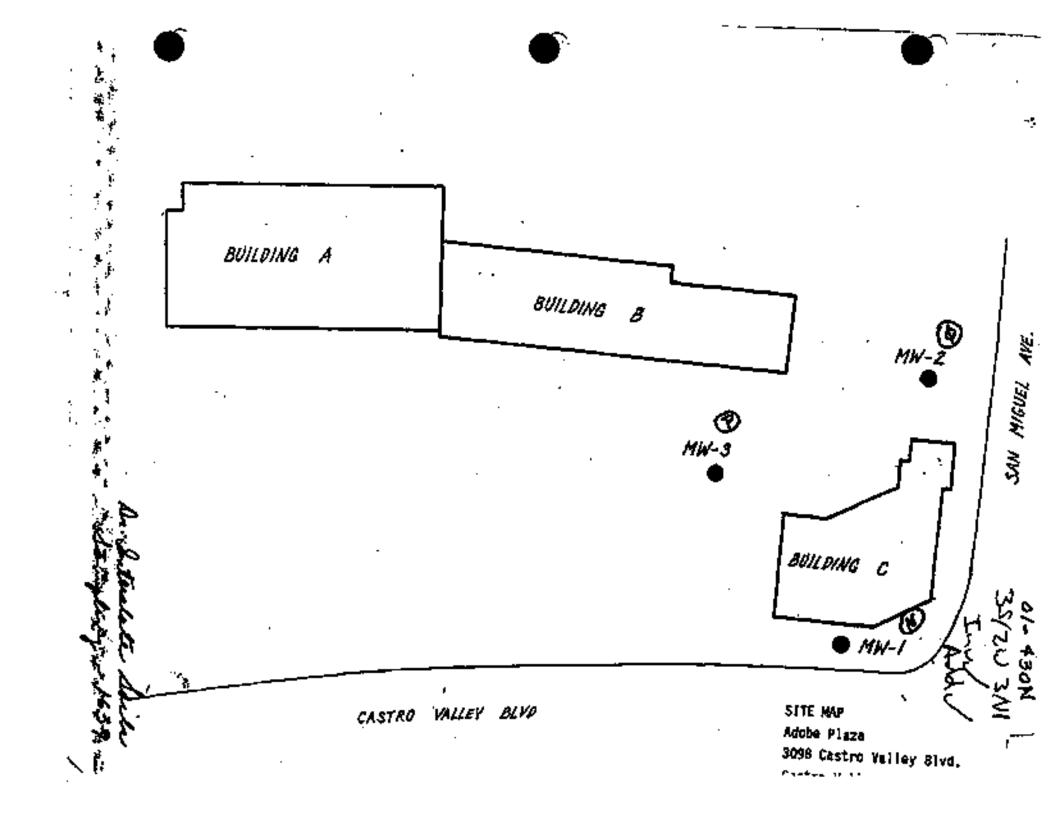












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| otiel<br>Re v   | -<br>Kal<br>Mi u'u'u | • .<br>•                               |                     | Di  |                            | E RESOUR   | ALMORNIA<br>CES AGENCY<br>VATER RESOURCES   | De Nor 165 In.<br>Nº 120974                   |
| ő -   | # •                  | <b>71</b> 2                            | ť_                  | w.  | ATER V                     | VEIL D     | RILLERS REPORT  | State Well No.3720/3C /                       |
| (1) OW<br>Name<br>Address   | NBR:                 | n G                                    | 14. I               | <u>()                                    </u> | 4                          |            | (11) WELL LOG:<br>Toul and <u>SD</u> h to<br>Normation Description, character, character, |   |
|   | ATIO                 | N OF W                                 |                     |   |                            |            |   |   |
| <u>Crusy</u><br>Tonykig, Ka<br>Distant Syn                            | _                    |  | 720                 | // A A  |                            | <u> </u>   | ······································  |   |
| ()) TY  | TO . 07              | WORE                                   | (aber               |   |                            |            | SANDY CLA   | 7   |
| <u>1/ Antrod</u><br>(4) PRC   | n, (orti             | <del>le material a</del><br>D-13\$1E ( | ni panak<br>(ebark) | <del>m; )+ 1/+=</del> )<br>r                  | <u>4.</u>                  | H D        | BROWN CI  | Ay  |
|   |                      | iorii (<br># Vii (                     |                     | tei⊡<br>ber⊊4                                 | Rotary<br>Cable<br>Other   | CIARSE GAR | KEL 4 SAND  |   |
| (6) CAS<br>STE<br>Silvaus []  | <b>R</b> Lr          | NSTALL<br>OTH                          |                     |   | í gravel pac               | ±.4        |   |   |
| From<br>St.   | 7.<br>11.            | Dan                                    | 0.44<br>7.2         | 24.mm   |                            | То<br>(њ   |   |   |
|   |                      |  | $\geq$              |   |                            |            |   |   |
| ىد مولى كو مطا<br>رومار سانەستان                                      |                      |  |                     | 1 <del>fin 1</del> f ann                      | nl,                        |            |   |   |
| (7) PER<br><del>Janel ech</del>                                       |                      |  |                     |   | <del>.</del>               |            |   | ·····   |
| fram<br>  |                      | го<br>k                                |                     | Z   |                            | Na<br>slav |   |   |
|   |                      | $\Rightarrow$                          | 2                   |   |                            |            |   |   |
| (1) (201  |                      |  |                     |   |                            |            | CCMP LATIN  | LM. LOG                                       |
| <b>*</b>  |                      |  | <u> </u>            |   | اکر جیٹ ساہ وز<br>میں بر ا | <u> </u>   |   |   |
| Fage<br>Tripp<br>jýmbal al ani  | <u>h.</u><br>h       |  | r.<br>Ceni          |   | <b></b>                    |            | THA MENT 8-19 1 77. COM   | p   |
| (5) WA<br>Peris   | TER L                | a fac level,                           | <br>K haara         |   | Bu                         |            | This well was defined mader my just<br>of my harmonial ge and balled,                     | thesian and this report is press on the basis |
| <del>اسي ودانمية</del><br>نيميا <del>وتكورة</del><br>(10) <b>17</b> 7 | UL TI                | 38TS: (                                |                     |   | <u> </u>                   |            | MALL OPROSION IFC   | HALLANG - FNC.                                |
|   |                      | موب شديه                               | ~~~                 | i ya, iy olaq<br>(), ingela<br>(), ingela     | en ef en                   | +0         | Dotto Care  | 20 - 20 - 41                                  |
|   |                      | -ro/ to o                              |                     |   |                            |            | 13 mm + 2202 + 7 4 4 7 mm   | sel [2  |

SKETCH LOCATION OF WELL ON REVERSE SIDE

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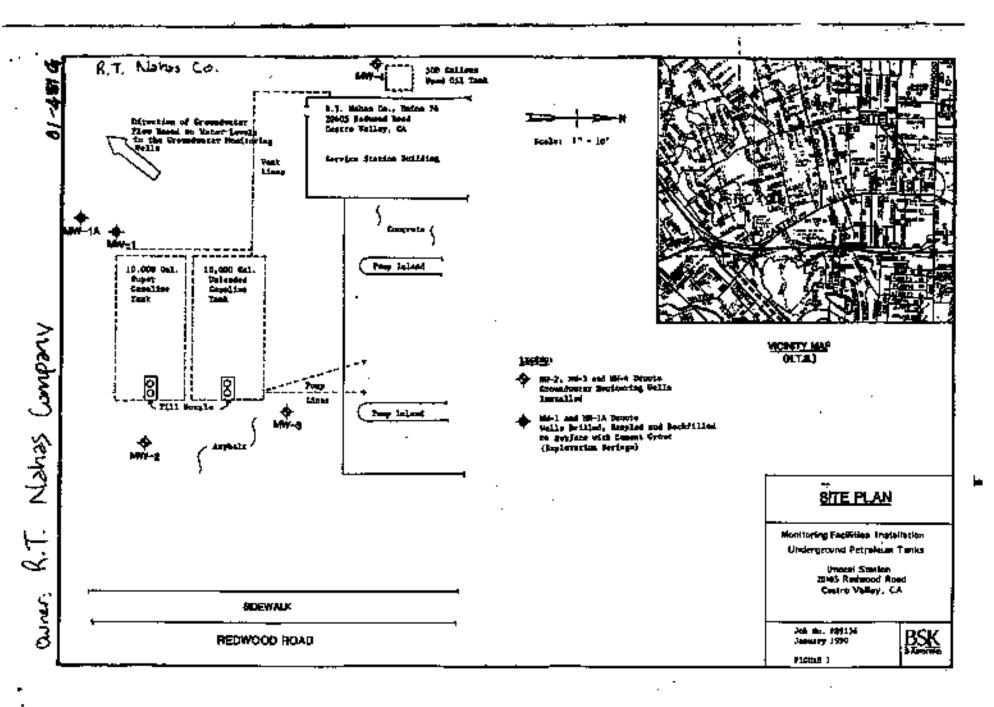
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|             | ATION<br>R LEY            | /EL:        | Xo         | <b>511e</b> )       | DīU        |    |                  | ered at 20'-0", then rose to 12'-5"<br>8" Bollow Stem Auger                                 | JOB1 PB91:<br>FIGURE:  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

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|             | 1                  | 120          | ×       | sirv,        |         |        |  |   |
|-------------|--------------------|--------------|---------|--------------|---------|--------|--|---|
| DEPTH, FEFT | NOMINAL<br>DIAMETE | HLONS / FOOT | MORSTUR | ORY DENSITY. | SAMPLES | US.C.S | SONL OR ROCK DESCRIPTION   | NOTES   |
| 25          |                    |              |         |              |         | CL     | SILTY CLAY: Light brown, saturated, very<br>stiff, sand fraction | <u> </u>  |
| -           |                    |              |         | !<br>        |         |        |  |   |
| -<br>30-    | 1 <u>)</u> "       | 13           | -       |              |         |        |  |   |
| 1           |                    |              |         |              |         |        |  | Boring<br>terminated<br>31'                             |
| ÷           |                    |              |         |              |         |        |  | 30' monitor<br>Well instal<br>having 15'<br>casing over |
| -           |                    |              |         |              |         |        |  | 2" diam   |
| -           |                    |              |         |              |         |        |  |   |
| _ده<br>4    |                    |              |         |              |         |        |  |   |
|             |                    |              |         |              |         | :      | ۰.   |   |
| 50-         |                    |              | i       |              |         | :      |  | 1   |
|             |                    |              |         |              |         | ļ      |  |   |
|             |                    |              |         |              |         |        |  |   |
| <u>ss</u>   |                    | is sha       | - SU8   |              |         |        | 15 It Sampte marks (AM.<br>D. AND IT                             | DAVEDCL   |



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

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

|     | DATE<br>LOGE<br>ELEV   | ::<br>:ED 81<br>/ATIOI | r:<br>•:     | 12/<br>8C  | 05/89               |         |          | LOG DESIGNATION   | 01-451                    |
|-----|------------------------|------------------------|--------------|------------|---------------------|---------|----------|---|---------------------------|
|     | Equi                   | A LE<br>PMEN           | T:           | Kob        | il Dr               |         |          | ered at 20'-0", then rose to 12'-0"<br>8" Hollow Stem Auger   | JOB : P891;<br>FIGURE :   |
|     | DEPTH, FEET            | NGLINKL ( )            | BLOWS / FODT | NOISTURE Y | DRY DENSITY,<br>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,<br>slighty sendy, numerous air voids                               | PID = 0.0                 |
| ) . | <u>0</u>               |                        | 27           | -          |                     | 2       | 립보       | SANDY CLAY: Light yellow brown, molec,<br>very stiff  |                           |
|     |                        | _                      |              |            |                     |         | GL<br>SC | SANDY CLAY/GLAYET SAND: Light yellow-brown,<br>moist, very stiff strong bydrocarbon odor<br>Saturated at 17 | -                         |
| 1   | 51<br>-<br>-<br>-<br>- | -                      | 28           |            |                     | 3       |          |   | PID to 28.<br>PID to 605. |
|     |                        |                        | 36           |            |                     | •       | sc       | CLAYET SAND: Greanish gray, saturated<br>No odor  |                           |
|     | 20_                    |                        |              |            |                     |         |          | SULTY CLAY: Light brown, moist, very atiff<br>Seturated at 20'  |                           |
|     | 25 I                   |                        |              |            |                     |         |          | Note: PID demotes Photo Ionization Detector<br>reading in PPM   |                           |
| , . | THE                    | . 100:<br>Test - 1     | S SHOW       | 506        | SURFAC              | E CO4   |          | 5 (1) have de la per de la De   | niller por                |

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|-------------|-----------------------------|-------|---------------|----------------|------------|-----------|---|---|---------------------------------|
|             | E:<br>GED IN<br>VATION      |       | 12<br>MC      | }-07-4<br>:    | <b>89</b>  |           |   | LOG DESIGNATION HIN-LA  | 01-451 X                        |
| WAT         | ÉN LE                       | VEL:  |               | bila           | Drí        | 10t       | ed at<br>8-51                               | t 15' (not werer table)<br>3 8" Hollow Stem <u>Auger</u>  | J08: 289134<br>Figure:          |
| OCPTH, FEET | NOMINAL (1)<br>DIANETER, M. | C (2) | NOISTUNE Y    | DAY DENSITT.   | SAMPLES    |           | vi<br>U<br>Vi SGIL OR ROOK DESCRIPTION<br>⊃ |   | HOTES                           |
|             | ]                           |       |               |                |            | Π         |   | 2.5"Asphaltic Concreteover B" Aggregate Base  | <b>† – – – – – –</b>            |
|             |                             |       |               |                |            |           | 다   | SILTY CLAY: Black gray, very moist.<br>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<br>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,<br>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<br>SC                                    | SANDY CLAT: Yallow brown, saturated moft<br>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<br>171' backfill |
| 20-         |                             |       |               |                | 1          |           |   | •   | to surface W:<br>meat grout     |
| ·           | 11                          |       |               |                |            |           |   |   | Note:                           |
| •           |                             |       |               |                |            |           |   |   | Surface seal<br>depth = 17.5    |
|             |                             |       |               |                | ]          |           |   |   |                                 |
| 25          |                             |       |               |                |            |           |   |   |                                 |
|             | THE D                       | KARAN | ANO I<br>NTED | LOCATE<br>THAT | ONS<br>THE | 400<br>(* | 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<br>20405 Bechwood Bal.<br>Castro Valley, CA.                           |   |
| Carbon Valley CA.  |   |
| 19840 2000 2000 2000   |   |
|  |   |
| denoes 20000 Robo Drive Prove<br>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   |   |
|  |   |
| THE OF PROJECT   |   |
| feli Construction · Geotechnical Investigation   |   |
| fell Construction Geotechnical Investigation<br>General General                                      |   |
| Bupply Contamination X   |   |
| Supply         Contamination         X           inclusion         X         Mell Sectoration        |   |
|  | 1 |
| ROPOSED WATER SUPPLY WELL, USE   |   |
| enertic todustrial Other   |   |
| noroseb which subject well, use<br>nonestictaduptrial Other<br>walcipal (rrigstion                   |   |
|  |   |
| IT LL ( NE AETHOD)   |   |
| ad Rotary Air Rotary Auger   |   |
| addle Other  |   |
| CURT URARUT  |   |
| RILLER'S LICENSE NO. <u>C-57 490947</u>  |   |
|  |   |
| AELL PROJECTS<br>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.<br>Burlace Seel Depth <u>15</u> ft. Number <b>4</b> |   |
| entities seal matrix (12) is a series (12)   |   |
| NEOTECHNIKAL PROJECTS  |   |
|  |   |
| Number of Sorings National<br>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<br>at 15'<br>Jeing 8" Hollow Stem Auger   | JOB; 290165<br>PRUNE: 6   |
|----------------|---------------|------|-------------|---------------------|---------|-----|------------|---|---|
| DEPTH, FEET    | NOMINAL ( 1 ) | 12)  | N. THILLING | ORY DENSITY,<br>PCF | SAMPLES |     | U.S.C.S.   | SOIL OR ROCK DESCRIPTION<br>Asphalt Surface (2-1/2 10ches)  | HOTES   |
| 0              | <u> </u>      |      |             |                     |         | Π   | TIL        | AGCREGATE BASE: Orange and gray, molet to wat   | 210 to 0  |
| -              |               |      |             |                     |         |     | · .<br>·   | CLAYEY SILT: Black, damp  | FID to Q  |
| 5              | 2.0           | 41   | -           | -                   |         |     | 161.       | CLAYET SILT: Mottled derk-gray and yellow-<br>brown, very stiff to herd, damp, roothets   | PID to O  |
| -<br>10<br>-   | 2.0           | 42   |             |                     | 1       |     | <u>5</u> C | CLAYET SAND: Nottled blue-gray and yellow-<br>brown, moist, dense, many very fine<br>pores, hydrocarbon odor                    | FID to 37   |
|                | 2.0           | 30   | -           |                     | 2       |     | ۲.         | SANDY SILT: Orange-brown, fine-grained and,<br>minor clay, moist to wat, very stiff,<br>porous, esturated pores have strong our | FID to 1500<br>First Racous<br>FID to 20                        |
| 15 -<br>-<br>- | 2.0           | 27   |             |                     |         |     | sc         | CLAYEY SAMD: Orange-brown, saturated,<br>modium-dense   | FID to 70   |
| -<br>20 -      |               |      |             | ,<br>,              |         |     |            | Note: Sheen observed on water in boring   | Boring<br>Terminated<br>at 16 <sup>4</sup><br>Boring            |
|                |               |      |             |                     |         |     |            |   | Backfilled<br>with Grout<br>PID =<br>Photo-innizati<br>Detector |

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|   | OI-4970 38/22 3P<br>NECEIVED<br>MAR_1 1991<br>ONTROL AND WATER CONSERVATION AND WATER CONSERVATION AND AND WATER CONSERVATION<br>LEASANTON, CALIFORNIA 94598 (416) 484-2800<br>INANCE PERMIT APPLICATION   |
|---|--|
| FOR APPLICANT TO COMPLETE   | FOR OFFICE USE   |
| cartical of project <u>Unocal</u> <u>16</u><br><u>2040.5 Reduced Rel.</u><br><u>Castro Valley, CA.</u>  | PERMIT NUMBER 91136  |
| utent<br>Robert T. Jahas<br>doress 20030 Rutho Drive Phone<br>ity Castro Valley CA 210 94346  | PERMIT CONDITIONS<br>Circled Permit Requirements Apply   |
| PPLICANT<br>BS)T & Associates<br><u>Jim Benger</u><br>ddress S719 F Some Har Dr. Phone 4/3 482 4000<br>Ity <u>Pliascumber</u><br>21p 94566<br>YPE of project<br>all Construction<br>Contentation<br>Supply<br>toring <u>X</u> Well Destroction  | <ul> <li>A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.</li> <li>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.</li> <li>Permit is void 16 project not began within 90 days of terms of terms.</li> </ul>   |
| ROPOSED WATER SUPPLY WELL USE<br>catestic industrial other<br>Valcipal irrigetion<br>RILLING METHOD:<br>Med Rotory Air Rotory Auger _X<br>able Other Auger _X<br>RILLER'S LICENSE NO C-57 Y909972.<br>ELL PROJECTS<br>Drill Hole Dismater 3 in. Depth 5571.<br>Surface Seel Depth 15 ft. Number 41<br>EOTEONNICAL PROJECTS<br>Hamber of Borlegs 5 Heclaum<br>Hole Dismater 5 in. Depth 18 ft. | <ul> <li>days of approval data.</li> <li>WATER WELLS, INCLUDING PIEZONETERS         <ol> <li>Minimum surface seal thickness is two lackes of compating rout placed by truste.</li> <li>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.</li> <li>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.</li> <li>CATHODIC, Fill hole above mode some with concrete placed by truste.</li> </ol> </li> </ul> |
| STIMATED STARTING DATE $\frac{3/12/91}{3/15/91}$<br>why egree to couply with all requirements of this<br>and Algonade Dounty Ordinance No. 73-06.<br>PPLICANT'S $fam Barger Date 3/0/91$  | Approved - Million April Dete 8 Mar 91<br>Wymen Bong (21969  |

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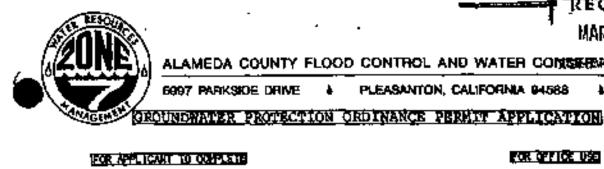
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<del>...</del>

|   | 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  |
| iter and ican to consume  | FOR DEFIDE USE   |
| CONTION OF PROJECT <u>Underal</u> 16<br>2040.5 Bealwood Bol                           | PERHIT NUMBER 91136  |
| Castro Valley, CA.  |  |
| LIENT<br>Lens Bobert T. Wahas<br>utereus 20130 Patho Drive Moore                      | PERHIT CONDITIONS  |
| ity Castro Valley, CA zis 44546   | Gircled Permit Requirements Apply  |
| PPLICANT<br>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<br>ity Pleaseentan ZIp 74366            | arrive at the Zone 7 office five days prior to<br>proposed starting dote.  |
| THE OF PROJECT  | <ol><li>Submit to Zone 7 within 60 days after completion<br/>of permitted work the original Department of</li></ol>  |
| Mil Costitution Gestechnical Investigation<br>Or Modic Protection General             | Water Resources Water Well Drillers Report or<br>equivalent for well projects, or drilling lage  |
| Contactor in X  | and location skatch for geotechnical projects.<br>3. Fermit is void if project not began within 90   |
| ROPOSED WATER SUPPLY WELL USE   | days of approval date.<br>(B) WATER WELLS, INCLUD(NO P)EZONETERS   |
| kanestic industriai Other<br>kalsipai irrigatica                                      | <ul> <li>Minimum surface seel thickness is two (ackes of<br/>cament grout placed by trants.</li> </ul>   |
| TRICLING METHOD:  | 2. Minimum seal depth is 50 feet for municipal and<br>Industrial wells or 20 feet for depositio ged  |
| tel Rotery Air Rotery Auger _X  | traigetion volte entens a tensor deptie te   |
| 2ableOther  | specially opproved. Mixium east depth for<br>monitoring velos is the maximum depth practicable   |
| RILLER'S LIKENSE NO. <u>C-37 490942</u>   | (C.) GEOTED-MICAL. Backfill bore hole with compacted atta-   |
| JELL PROJECTS<br>Orill Hole Disector 🔰 In. 🌱 Maximum                                  | tings or heavy bentonite and upper two feet with com-<br>ported meterial. In areas of known or suspected   |
| Captag Dimmiter <u>2 </u> in. Depth <u>35</u> 17.                                     | contentantion, transed cament growt shall be used in   |
| Surface Seel Depth <u>15</u> tt. Number <b>4</b>                                      | place of compacted cuttings.<br>D. CATHODIC. fill hole shows enode zone with concrete  |
| HEADER DE BOLIECTS<br>Hanber of Borlegs 💆 Hacimum<br>Hole Diameter 🔥 In. Depth /8_ft. | placed by transe.<br>E. WELL DESTRUCTION. See strached.  |
|   |  |
| (STINATED STARTING DATE $\frac{3/12/91}{3/15/9}$                                      |  |
| 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.   |   |
| -  |   |
| Bobert T. Nahas  |   |
| diress 20530 Ritio Drive Picone  |   |
| ity Castro Valley (A zip 94346   |   |
|  |   |
| PFLIGNIT   |   |
| Bsk + Associates   | ( |
| Bak + Haraciates   |   |
| doners strzy F Jonania, 147. Phone 4/3 402. 7000   |   |
| thy Pleaser ton 210 99866  |   |
| the of project   |   |
| e)  Construction Geotachnice/ Investigation  |   |
| Privadic Protection Beneral  |   |
|  |   |
| toring <u>x</u> mil pertruction <u>x</u>   |   |
|  | , |
| ROPOSED WATER SUPPLY WELL USE  |   |
| clustic locustrial Other<br>Naicipal irrigation  |   |
| kaleipa: irrigation  |   |
| RILLING HETNODI  |   |
| will Battery Air Battery August X  |   |
| ad Rotary Air Rotary Auger _X<br>able Other  |   |
|  |   |
| RILLER'S LICENSE NO  |   |
|  |   |
| ELL, PROJECTS  |   |
| Certi) Hole Diameter 2 in, Heximum<br>Certing Diameter 7. In, Depth 3511.                            |   |
| Casleg Olaaster <u>1</u> in, Depth <u>35</u> 17.<br>Surface Seel Depth <u>15</u> ft, Number <u>4</u> |   |
| SULTACE SHOT VADAN 125 114 WARNER TO .   |   |
| ECTECHNICAL PROJECTS   |   |
|  |   |
| Herber of Borlings <u></u>   |   |
| - halas  |   |
| STINATED STARTING DATE   |   |
| STUNATED STARTING DATE $\frac{3/12/91}{57000000000000000000000000000000000000$                       |   |
| the second second with all considered to the   |   |

and Alemedy County Ordinance Ho. 73-66.

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### FOR OFFICE USE

| PENNIT    | HAMPER  | _ 91) | L36 |
|-----------|---------|-------|-----|
| 1 COAT IC | W WSWER |       |     |

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

38/2W 3P

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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

| OCATION OF PROJECT LUNCCOL 16  |     |
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| 2040.5 Reclumos Rol.   |     |
| Castro Valley, CA.   |     |
| CISHO VIIII C  |     |
|  |     |
| Clear Blue T Shear   |     |
| Lieur Robert T. Welkas   |     |
| denses 20030 Roho Drive Phone<br>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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| vere of project  |     |
| laij Construction Bootechaical Investigation   |     |
|  |     |
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| Supply Contempetion X  |     |
| Voring 🔀 Hell Centruction  |     |
| -  | 1   |
| ROPOSED WATER RUPPLY WILL, USE   | (   |
| kanestic (ndustrial Other  |     |
| NuloTpal irrightion  |     |
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| SRIELLING HETHODI  |     |
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| able Air Rotery Auger _X<br>able Other   |     |
| able   |     |
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| RILLER'S LIGENSE NDC-S7Y90142.   | 1   |
|  | _ ( |
| ASL PROJECTS   |     |
| Ortil Hole Dieseter 3 In. Maximum  |     |
| Casing Clamater 2 In. Depth 35(t.  |     |
| Cealing Clampter <u>2</u> 10. Depth <u>35</u> (t.<br>Burface Seul Depth <u>15</u> ft. Number <b>4</b>  |     |
|  |     |
| YEOTECHNICK, PROJECTS  |     |
|  |     |
| Number of Sorings 🤔 Nacimum<br>Hole Dissetur 🔒 In. Depth 18 11.  |     |
|  |     |
| STINATED STARTING DATE   |     |
| STINATED STARTING DATE   |     |
| STINATED COMPLETION DATE . 3/3/9/  |     |
| -<br>  |     |
| the state of the second st |     |
| and Alamada County Ordinance No. 75-68.  |     |
| <b>T</b>   |     |
| 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

- Hinimum montace used thickness is two incluse of commut prost placed by transle.
- 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<br>Robert T. Nahas  | PERMIT CONDITIONS   |
| deress EDGS RATIO DATE Phase  | Gircled Peruit Reguirements Apply   |
|   |   |
| me lavin<br><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<br>arrive at the Zone 7 office five days prior to    |
| ity Pleaser ton Zip 94566   | proposed starting date.<br>2. Submit to Zone 7 within 60 days after completion                            |
| YPE OF PROJECT<br>will Construction   | of perchitted work the original Department of<br>Noter Resources Nater Nell Drillers Report or            |
| Privatic Protection General   | equivalent for well projects, or drilling logs  |
| Supply Contraction  | and incution skatch for geotechnical projects.<br>3. Paralt is void if project not began within 90        |
| ROPOSED MATER SUPPLY WELL USE   | days of approve) date.  |
| crestic industrial Other<br>knicipal irrigetics   | <ul> <li>1. Kinimus surface asel thickness is two lacked of<br/>cament grout placed by treate.</li> </ul> |
|   | 2, Mighum seal depth is 50 feet for wunicipal and<br>industrial while or 20 feet for demestic and         |
| Ritling ACTHOD:<br>led Botery Air Botery Amper  | terigation walls wheat a (easer depth is  |
| ableOther   | specially approval. Minimum seal depth for<br>monitoring value is the anzimum depth practicable           |
| RILLER'S LICENSE NO   | or 20 feet.<br>(C.) SECTEMENTAL. Backfill bore hole with compacted cut-                                   |
| ELL PROJECTS<br>Oril: Hole Disseter_3_ In. New New New  | tings or beavy bastcalte and upper two feet with com-<br>pacted meterial. In areas of known or exapacted  |
| Cooling Dissistor 7_ 1n. Depth 351t.  | contumination, tranled cament prost shall be thand in<br>place of compacted cuttings.                     |
|   | D CATHODIC. Fill hole shave mode some with concrete   |
| ECTECHNICAL PROJECTS<br>Hander of Borings 🖉 - Makimum<br>Hole Planator <u>8</u> (n. Depth <u>18</u> ft. | placed by transe.<br>E. WELL DESTRUCTION, See attacked.   |
| •   |   |
| 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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Wyman Bong 172-11 121900

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| A STATISTICS   | 01-4974 38/2W 3P<br>RECEIVED<br>MAR _ 1 1991   |
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| 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><br><u>Castro Valley</u> , CA.                                      | LOCATION ANNUER  |
| LIGHT<br>Lane Robert T. Nahas<br>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   | <ol> <li>A parmit opplication about the antmitted so as to<br/>anylys at the Zone 7 office five days prior to</li> </ol> |
| ity Plasantan Zip 74365  | proposed statting date.<br>2. Submit to Zone 7 within 60 days siter completion.  |
| THE OF PROJECT   | of permitted work the original Department of<br>Networ Resources Nater Well Original Report or                           |
| Gootechaidgi Investigation   | equivalent for well projects, or drilling logs   |
| for Supply Continuing X<br>toring X Well Destruction   | and incention exertain for gestacksical projects.<br>3. Permit is void if project not begin within 90                    |
|  | days of approval date.   |
| ROPOSED WATER SUPPLY WELL USE<br>committe industrial Other                                   | (b.) WATER WELLS, INCLUDING PIEZONETERS<br>1. Minimum satisface sail thickness is two lectes of                          |
| hunicipalicrigation  | cament grout pieced by treate.<br>2. Ninteen seal depth is 50 test for quaicipal and                                     |
| (LILL) HE HETHODA  | industrial value or 20 feat for domestic and   |
| ked Rotery Air Rotery Auger<br>able Other  | irrigation welts unless a lexaer dapth is<br>Specially approved, Minimum sauf dapth for                                  |
|  | wonitoring while is the waximum depth prosticable<br>or 20 (wet.   |
| RILLER'S LICENSE ND. <u>C+57</u> 490942.   | (C.) GEOTECHNICAL. Backfill here hele with compacted cut-  |
| ALL PROJECTS<br>Drill Hole Classifier 3_ in. Mascinum  | tings or knowy bentonite and upper two fast with com-<br>pacted material. In areas of known or suspected                 |
| Casing Olympiter 7. In. Septh 35ft.  | contanination, fronted cannot growt shall be used in<br>place of compacted cuttings.                                     |
| 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.<br>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<br>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  |
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| 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<br>ity Castro Valley (A zip 94546   | Circled Parmit Requirements Apply   |
| Melicum<br>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<br>arrive at the Zone 7 office five days prior to  |
| ity Plasantan Zip 74566  | proposed starting date,<br>2. Submit to Zone 7 within 60 days after completion                          |
| YPE OF PROJECT<br>fell Construction  | of permitted work the original Department of<br>Noter Resources Nater Vell Orilians Report or           |
| Several General Contention   | equivalent for well projects, or drilling lage<br>and location skatch for gestechnical projects.        |
| Thoring <u>x</u> Well Destruction  | <ol> <li>Perait to void if project not began within 90<br/>days of approval date.</li> </ol>            |
| ROPOSED WATER BUPPLY NELL USE<br>committe  | (b.) WATER WELLS, INCLUDING PIEZONETERS<br>1. Minimum swiftees shall thickness in two inches of         |
| teninipat irrightion   | cement grout placed by transle.<br>2. Minimum scal depth is 50 feet for manipuland                      |
| RJLL1NG METHOD:<br>Nel Rotary Ally Rotary Auger _ <u>X</u>   | industrial wells or 20 test for dustails and<br>irrigotion wells unless a fessar depth in               |
| soleCther  | specially approved. Binimum seel dopth for monitoring while is the maximum depth practicuble            |
| RILLER'S LICENSE NO. <u>C-57 Y90947</u>  | or 20 feet.<br>(C.) SECTED: MICAL. Backfill bore hole with compacted out-                               |
| ELL PROJECTS<br>Drill Hole Diemeter <u>3</u> in. Nacince   | tings or heavy bentonite and upper two feet with com-<br>pected meterial. In areas of known or sepected |
| Called Clameter $\underline{Z}_{1}$ in. Depth $\underline{35}$ it.<br>Surface Seel Depth $\underline{15}$ it. Number $\underline{4}$ | contactantion, treated compart great shalf be used in<br>place of comparted cuttings.                   |
| ROTECHNICAL PROJECTS   | D. GATHODIC. Fill bole above ending tone with concrete<br>placed by traple.                             |
| Number of Borings <u>5</u> Hextman<br>Hole Diameter <u>8</u> in. Depth <u>18</u> 19.   | E. WELL CESTRUCTION. See attached.  |
| STINATED STARTING DATE $\frac{3/12/91}{571000000000000000000000000000000000000$  |   |
| and Alexada County Ordinance No. 73-68.  | Approved - Human Aons Doto 8 Wax 97   |
| HELICANT'S Jen Buge Dote 3/3/91  | Wyman Hong 121989   |
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|  | OI-497X 35 (2W 3P<br>NECEIVED<br>MAR - 1 1991<br>CONTROL AND WATER CONSERVATION CONSERVATION CONSERVATION (416) 484-2600<br>LEASANTON, CALIFORINA 94568 (416) 484-2600<br>CINANCE FERMIT APPLICATION   |
|--|--|
| FOR APPLICANT TO COMPLETE  |  |
| Castro Valley, CA.   | PERMIT NUMBER 91136<br>LOCATION NUMBER   |
| LIERT<br>me_ Robert T. Wahas<br>Adress 20050 Potto Drive Phone<br>try Castro Valley, CA zip94596   | PSWIT CONDITIONS<br>Direled Permit Requirements Apply  |
| PPLICANT         Image: Signal for a MSROciocles         Time Districe         defense Signal for Selecting         ty       Plascifer         defense Signal for Selection         General         Construction         General         Construction         General         Control particle         General         Control particle         Control pariticle <td><ul> <li>A persit application should be submitted as as to arrive at the Zone 7 office five days prior to proposed starting date.</li> <li>Submit to Zone 7 within 60 days after completion of persitted work the original Capartment of Nuter Resources Nater Will Projects, or drilling togs and location should be getechnical projects.</li> <li>Persit is void if project not begin within 90 days of approved date.</li> <li>Maine MeLLS, INCLUDING PIECTRETERS</li> <li>Maine series seal thickness is two inches of central projects and industrial walls or 20 feet for damestic and industrial walls or 20 feet for damestic and industrial walls is the wallow days proceed approved. Minima surface wells where need approved, Minima approved, Minima approved to for damestic and industrial walls or 20 feet for damestic and industrial walls is the wallow well dayth for walloring wells is the wallow dayth practicable contained approved ap</li></ul></td> | <ul> <li>A persit application should be submitted as as to arrive at the Zone 7 office five days prior to proposed starting date.</li> <li>Submit to Zone 7 within 60 days after completion of persitted work the original Capartment of Nuter Resources Nater Will Projects, or drilling togs and location should be getechnical projects.</li> <li>Persit is void if project not begin within 90 days of approved date.</li> <li>Maine MeLLS, INCLUDING PIECTRETERS</li> <li>Maine series seal thickness is two inches of central projects and industrial walls or 20 feet for damestic and industrial walls or 20 feet for damestic and industrial walls is the wallow days proceed approved. Minima surface wells where need approved, Minima approved, Minima approved to for damestic and industrial walls or 20 feet for damestic and industrial walls is the wallow well dayth for walloring wells is the wallow dayth practicable contained approved ap</li></ul> |
| STINATED STATTING DATE <u>3/12/91</u><br>STINATED COMPLETION DATE <u>3/15/91</u><br>Toby agree to comply with all requirements of this<br>and Alemade County Ordinance No. 73-68.<br>SPLICANT'S <u>June Burge</u> Bote <u>3/8/91</u><br>IGNATURE <u>1</u>  | Accrowd - Marman Actus Date 8 Mar 91<br>Wymasi Bong - 121989   |

|  | 01-497/ 35/2W 3P  |
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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<br>Ity Castro Valley, CA zip 99596                             | Circled Permit Requirements Apply   |
| PLICANT<br>BSK - Associates  | (A) SEMERAL   |
| Tim Benjer<br>Idress Ster F Salama Dr. Phone 4/3 452 4000                                      | I. A permit application should be submitted so as to<br>wrive at the Zone 7 office five days prior to   |
| ity Plascinton Zip 74566   | proposed starting date.<br>2. Submit to Zone 7 within 60 days after completion                          |
| YPE OF PROJECT<br>all Construction Geoteche(ca) investigation                                  | of persitted work the original Department of<br>Nator Resources Water Well Origins' Report or           |
| Provid Protection General General  | equivalent for well projects, or drilling logs<br>and location sketch for geotechnical projects.        |
| Tioning > Well Destruction   | 3. Permit 1s vold if project not begin within 90<br>days of sporoval date.                              |
| ROPOSED WATER SUPPLY WELL USE<br>constitut industrial Officer                                  | (8.) WATER WELLS, INCLUDING PLEXCHETISMS<br>3. Ninimum surface een) thickness is two inches of          |
| unicipalinvigation   | cament growt placed by trants.<br>2. Minimum seal depth is 50 feet for swhicipal and                    |
| R(LL)HS NETHOD:<br>ud Rotary Ally Rotary AdgesX  | Industrial valle or 20 feet for demotio and<br>inclustrial valle unless a lesser depth is               |
| able Other   | spects)ly approval. Hintain and depth for<br>monitoring unlis is the maximum depth provideble           |
| RILLER'S LIGENSE NO. C-57 490942.  | or 20 feet.<br>(C.) GEOTECHNICAL. Backfill bore hole with compacted cut-                                |
| ELL PROJECTS<br>Orill Hoje Diemeter 🤰 In. Maximum  | tings or heavy bestonits and apper two feet with com-<br>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.<br>D. GATHODIC. Fill hole above anode zone with concrete.                  |
| Kotestellical, PRO/ACCTS<br>Number of Borlage 🥭 Xanimum  | plead by trante.<br>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<br>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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| 6997 PARKSIDE DRIVE I PL   | OI-4977 38/2W 3P<br>NAR _ I 1991<br>ONTROL AND WATER CONSERVATION FROM PRINT<br>EASANTON, CALIFORNIA 84588 (415) 484-2800<br>INANCE PERMIT APPLICATION   |
|--|--|
| FOR APPLICANT TO COMPLETE  |  |
| contrion or project Unocal 76<br>20405 Reduced Rol.<br>Castro Valley, CA.  | PERMIT MUNIER 91136  |
| LIGHT<br>Inne Bolgert T. Jahas<br>Vierese <u>20630</u> Rutic Drive Phone<br>Ity <u>Castro Valley (A</u> zlp <u>94346</u>   | PENNIT CONDITIONS<br>Circulad Permit Requirements Apply  |
| PPLICANT<br>Ima BSK: & Manacipates<br>77M Benger<br>Mirmes ST29 F Solvena Dr. Phone 4/3 482 4000<br>Ity Plascenton Zip _94566  | <ul> <li>A. Otherrol.</li> <li>C. A permit application should be submitted so as to arrive of the Zone 7 office five days prior to proposed starting date.</li> <li>Submit to Zone 7 within 50 days after completion</li> </ul>  |
| YPE OF PROJECT     Geotechnical Investigation       Yeil Construction     Geotechnical Investigation       Yeind(c Protect)on     Geotechnical Investigation | of permitted work the original Department of<br>Mater Resources Veter Nell Drillers Report or<br>equivalent for well projects, or drilling logs<br>and location sketch for gestechnical projects.<br>3. Permit is wold if graject not begin within 90<br>days of approval date.  |
| ROPOSED WATER SUPPLY NELL USE<br>-ompatic industrial Other<br>km)cipal irrigation  | <ul> <li>(0.) WATER WELLS, INCLUD(NE P)EZONETERS</li> <li>J. Minimum starface news thickness is two lockes of centering growt placed by transle.</li> <li>2. Minimum sent depth in 50 test for monicipal and</li> </ul>  |
| etill.(N9 HETHOD:<br>fud Rotery Alr Rotery Auger _X<br>lable Other   | industrial walls or 20 feet for dementic and<br>irrightion wells onless a fesser depth is<br>specially approved. Hisimus seal depth for<br>monitoring wells is the maximum depth practicable   |
| ALLER'S LICENSE NO. <u>C-87 490942</u><br>ALL PROJECTS<br>Ort(I Hole Disector <u>3</u> In. Hackness<br>Casing Disector <u>2</u> In. Dapit <u>351</u> t.<br>Surface Seal Depth <u>15</u> It. Number <u>4</u> ]  | <ul> <li>or 20 feet.</li> <li>C. ACOMECHICAL. Seckfill bore hole with comparied out-<br/>tings or heavy bostonite and upper two feet with com-<br/>pacted material. In areas of knows or suspected<br/>contexination, treated cament groat skall be used in<br/>place of comparied cutfings.</li> <li>D. CATHODIC, Fitt bole above anote zone with concrete</li> </ul> |
| Restantional Photosofts<br>Number of Borlags <u>2</u> Noclaim<br>Note Clameter <u>3</u> In. Depth <u>18</u> ft.  | placed by transfe.<br>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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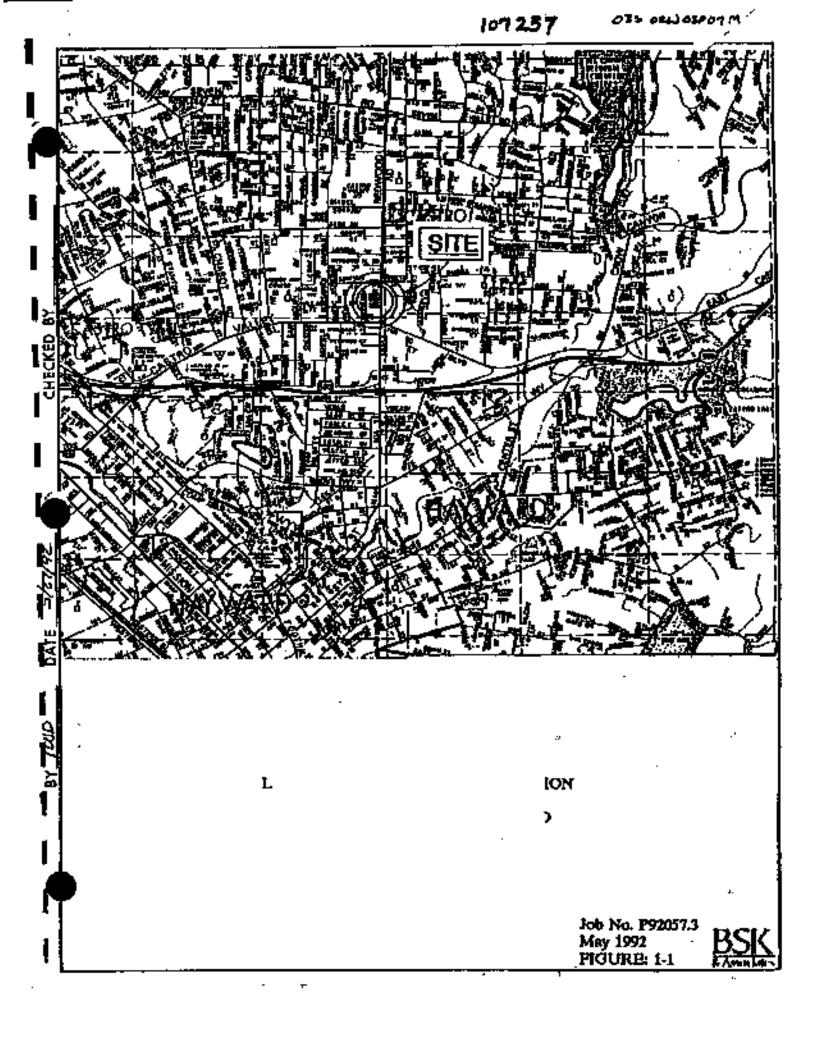
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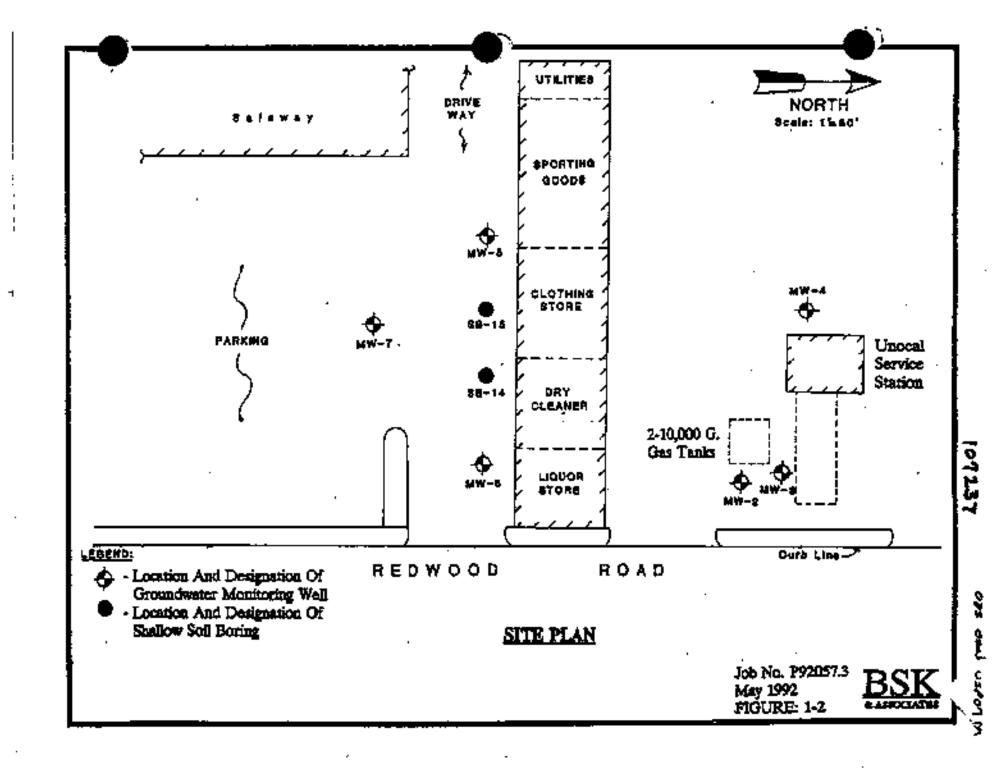
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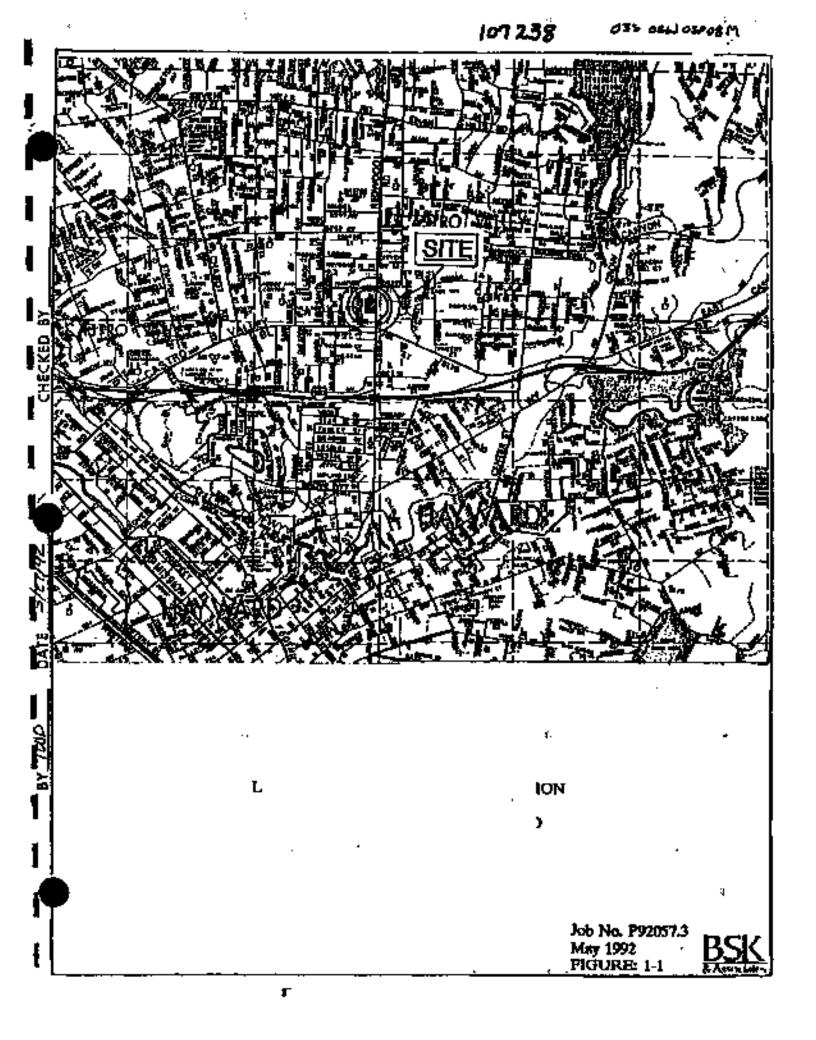
## STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

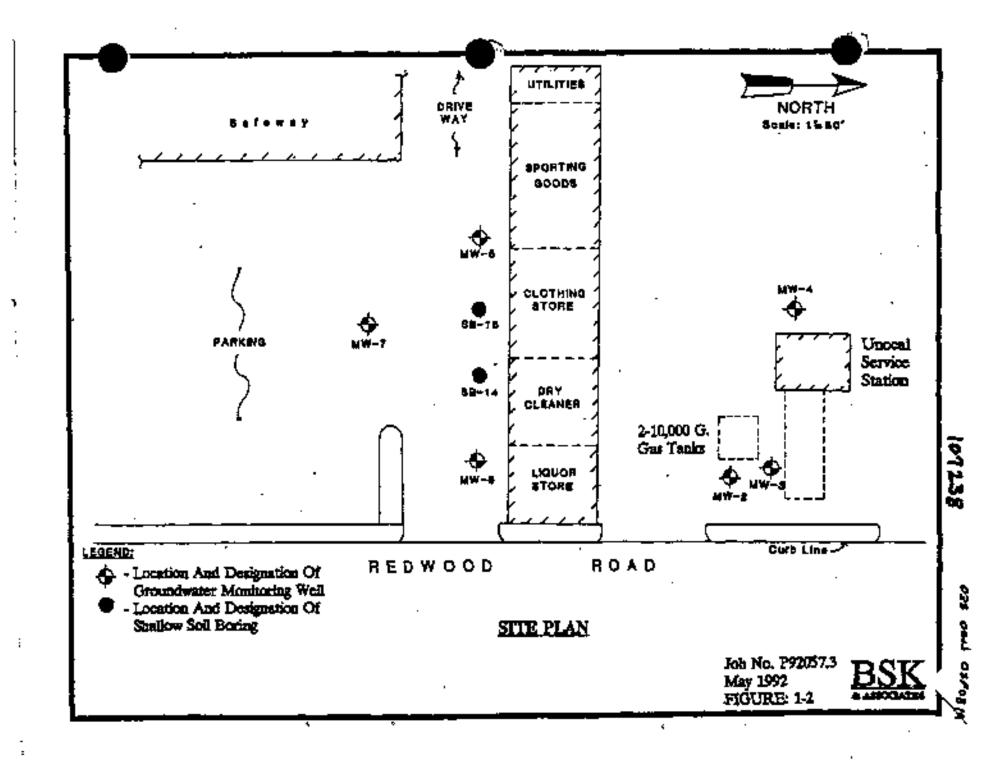
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)





## STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



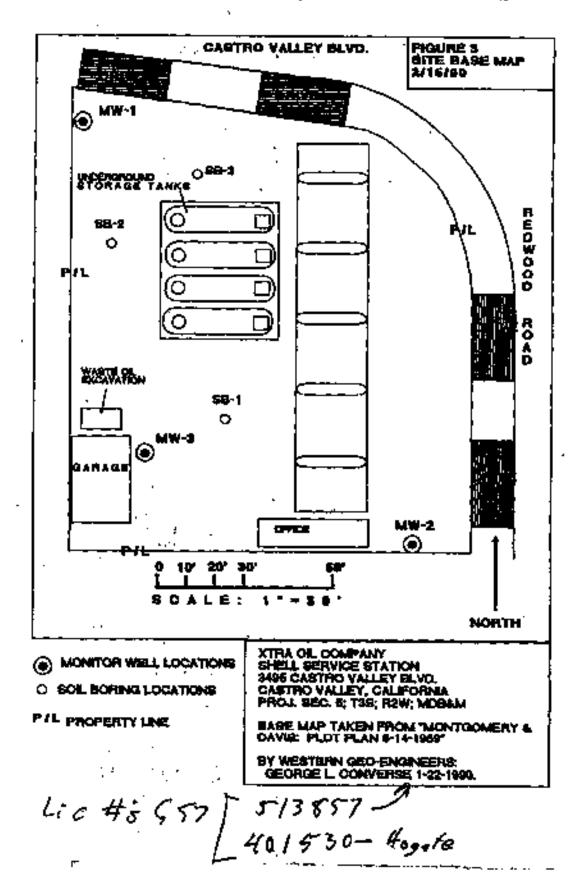


## STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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

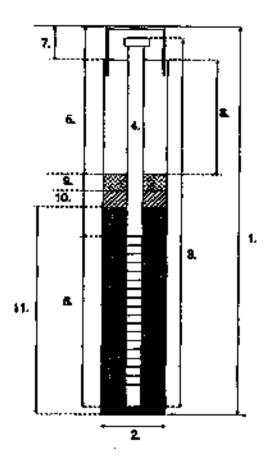
PROJECT NAME XTRA GAS-CASTRO ..... MONITOR WELL NUMBER MW1

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        |   | -<br>\8-ÇA | STRO           | VALLEY                             | GEOLOGIST:<br>M. Thomas                | TOP                   | TOP OF CASING   |  |
| LOCA        | TION  | 3495       | Casiro         | DRILLER:                           |  | AL DEPTH              |                 |  |
|             | Redwood Road, Castro Valley, California B. Hogkie Jr.<br>DRILLING CONTRACTOR: DEPTH TO  |            |                |                                    |  |                       | 207             |  |
| HOG         |   | EXPLO      | RATIO          | h:<br>In drillung                  | DEPTH TO<br>WATER: Approx, 16***       | CASENCI:<br>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<br>На   | 2              | UNIFIED SOLS C                     | ASSIFICATION SYNTEM                    | CHUHIC                |                 |  |
| ö           | ц<br>С  | <u> </u>   | <u>₹</u>       |                                    |  | Ē                     |                 |  |
|             |   |            | 1              | 4" adphall surface                 | •                                      | :0,000                |                 |  |
| ₽.          | M   | 1.         | \$-70          | Class dark black                   | with minor <b>sit</b> , 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<br>PT-14 | Glay: brown, with<br>timm, dry, ne | moderate sit, semi-                    | TIIII                 | -               |  |
| 207-        |   | 24         | 10-20          |                                    |  |                       |                 |  |
| ~1          | 70  | -          | 10-20<br>PPTM  | City: brown, dec<br>wet, no ods    | reasing clay, with sit,<br>or (CL-L41) |                       |                 |  |
|             | !   |            |                |                                    |  |                       |                 |  |
|             |   |            |                |                                    |  |                       | l l             |  |
|             |   |            | •              | Indicates state<br>during drilling | r encoundered<br>procese               |                       | ł               |  |
|             |   |            |                |                                    | -                                      |                       |                 |  |
|             |   |            |                | standerd                           | in 60 ppm geoline                      |                       |                 |  |
| <b>!</b> -! |   |            |                |                                    |  | -                     |                 |  |
|             |   |            |                |                                    |  |                       |                 |  |
| -           |   |            |                |                                    |  | - 1                   |                 |  |
|             |   |            |                |                                    |  |                       |                 |  |
| -           |   | •          |                |                                    |  | ⊢ ]                   |                 |  |
|             |   |            | [              |                                    |  |                       | [               |  |
| -           |   |            |                | l                                  |  | - 1                   | ļ               |  |
|             |   |            |                | 1                                  |  |                       | 1               |  |
| -           |   |            | [              |                                    |  | - I                   | 1               |  |
|             |   | Į          |                |                                    |  |                       |                 |  |
| E.          |   |            | 1              |                                    |  |                       |                 |  |

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-WEGE-WESTERN GEO-ENGINEERS

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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

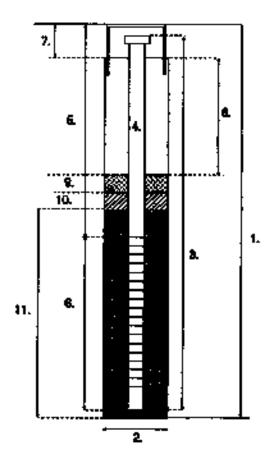
PROJECT NUMBER

\_\_\_ 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>10<sup>4</sup></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

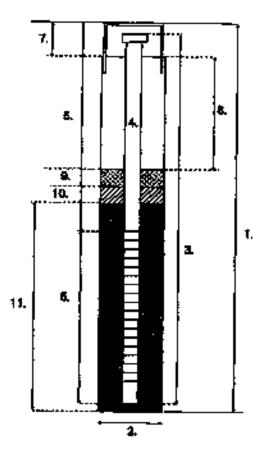
PROJECT NUMBER

- 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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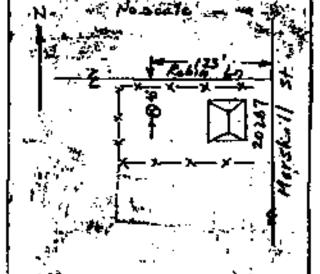
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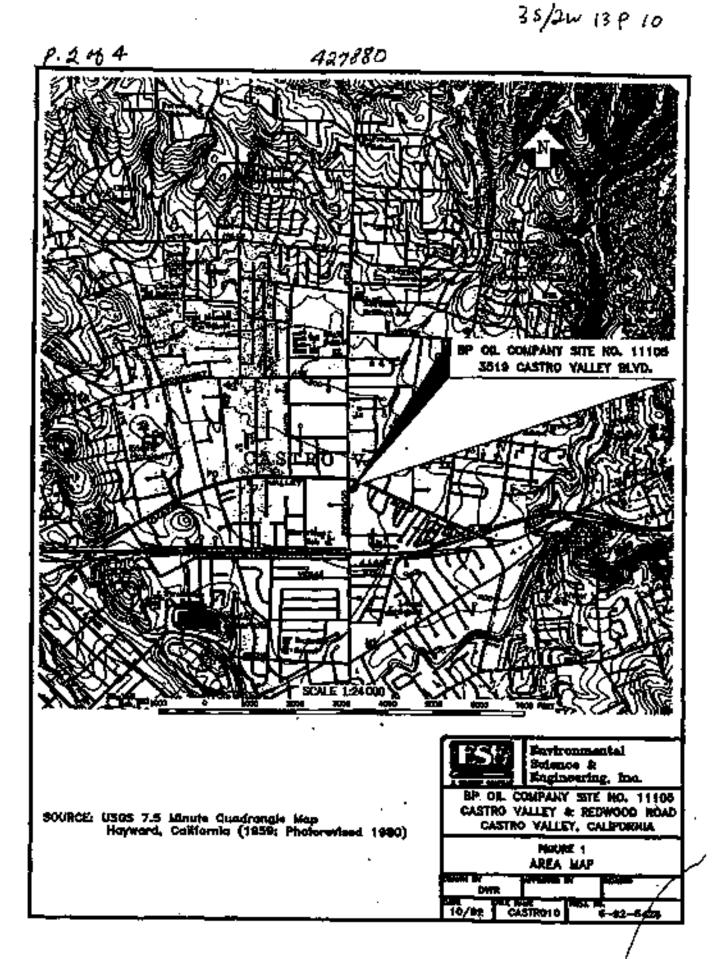
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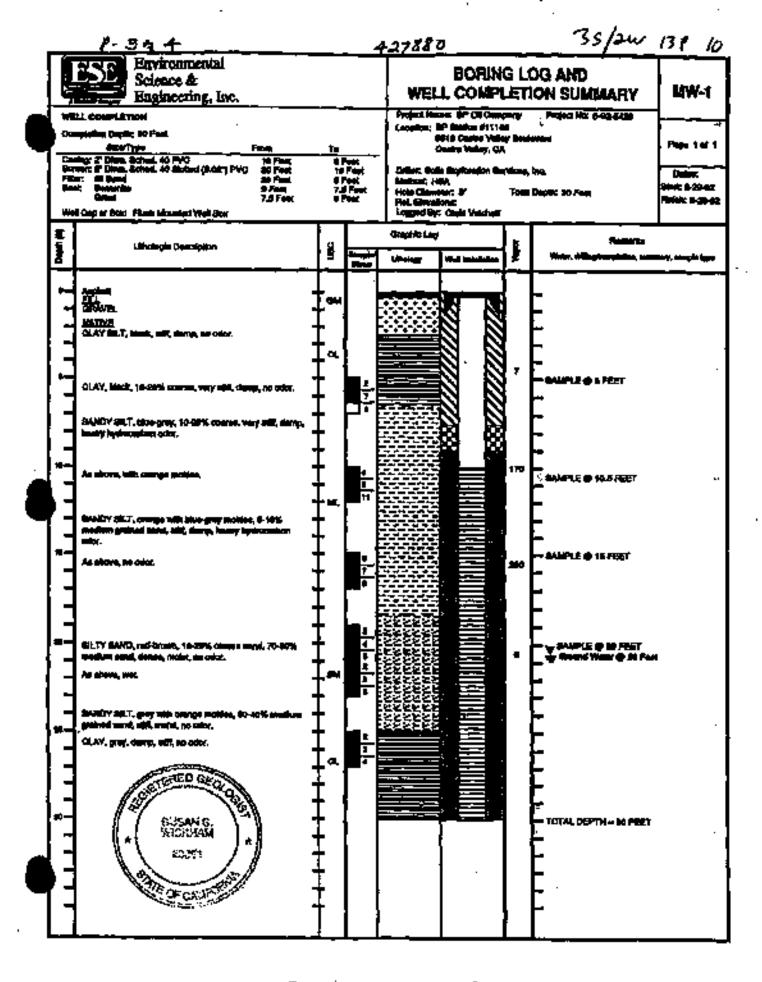
### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

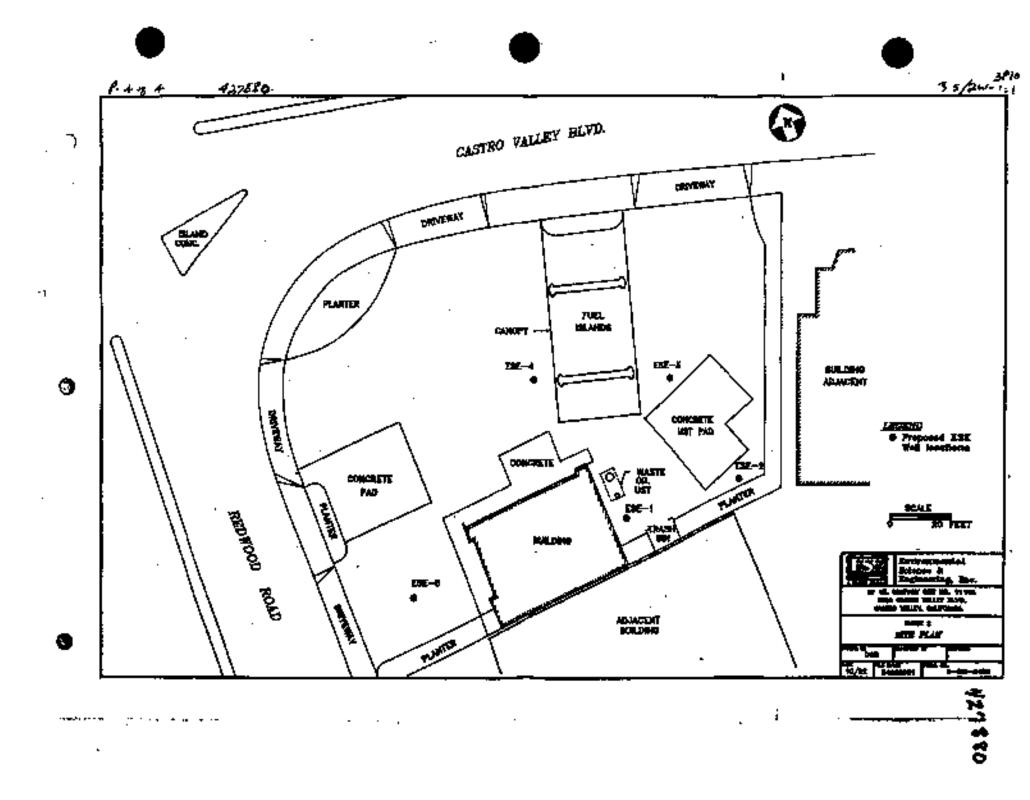
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



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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.                           | <b>Inc.</b><br>12+20-45    |     |
|--|--------------------------------|-----------------------------------|----------------------------|-----|
| 661 Kings Row<br>San Jose, CA 95112<br>Attention Me. Gail Williams | EVINE 2 AUX                    | DATE RECD:<br>LAB HO:<br>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<br>164 - 20°, sandy soil                     | none detected                  | ATV-                              |                            |     |
| 164 - 25', wet soil  | 38.0 pp                        |                                   | TIFED<br>LITEIS            | 2   |
| Terro 3940 Carto Valley B  | P Castro Valley                | Approved by:<br>STATE OF          | California<br>Lite stavice | /   |
| The determination was done by<br>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

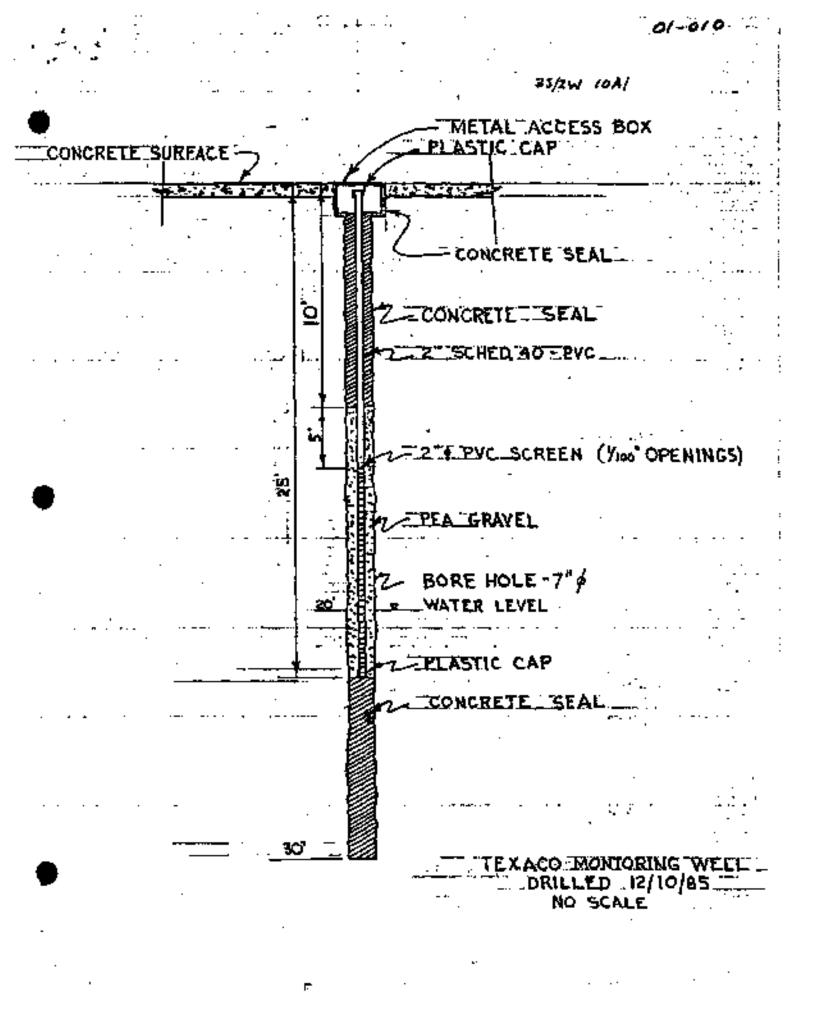
Perm 852Lİ SS∕Z₩ 10A OWNER: TEXACO LOCATION OF WELL: See attached map. DATE DRILLED: December 10, 1985 DATE COMPLETED: December 10, 1985 TYPE OF WORK: New Well PROPOSED USE: Monitoring (gasolene) EQUIPMENT: Auger GRAVEL PACK: Pear 7º die. drill holer Packed from 13' to 25' CASING UNSTALLED: From 0' to 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° -       | - <b>4</b> * | 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



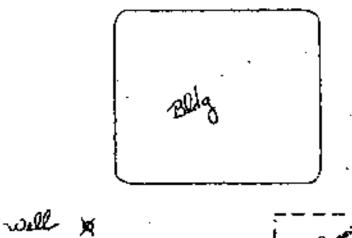
35/ZW WAL

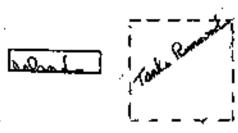
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FEROLEUM SERVICE, INC. computer services Ucensed Contractors—All Work Guaranteed Pumps, Hoists & Compressors Meter Exchange, Hoset, Belts, etc.

10 January 1986





Castro Velley Block.

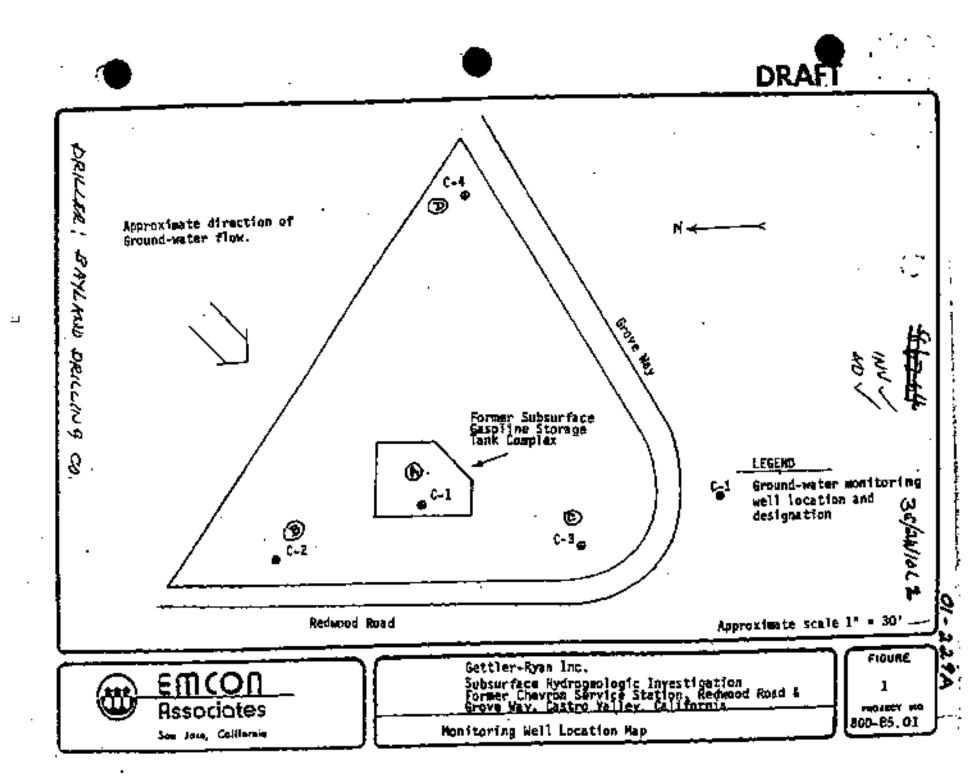
g williams

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

-

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                    |
| <b>ZN</b>   |                           | n. CASERS ILY. TOP OF CASING ELEV. 97.3  |
| <b>W</b>  | 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> .  <b> </b>  ⊧ | c. Casing length                         |
|   |                           | Material <u>Schedule 40 PVC</u>          |
|   |                           | d. Diameter                              |
|   |                           | e. Depth to top perforations 10          |
| <b>1</b> 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<br>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                            |

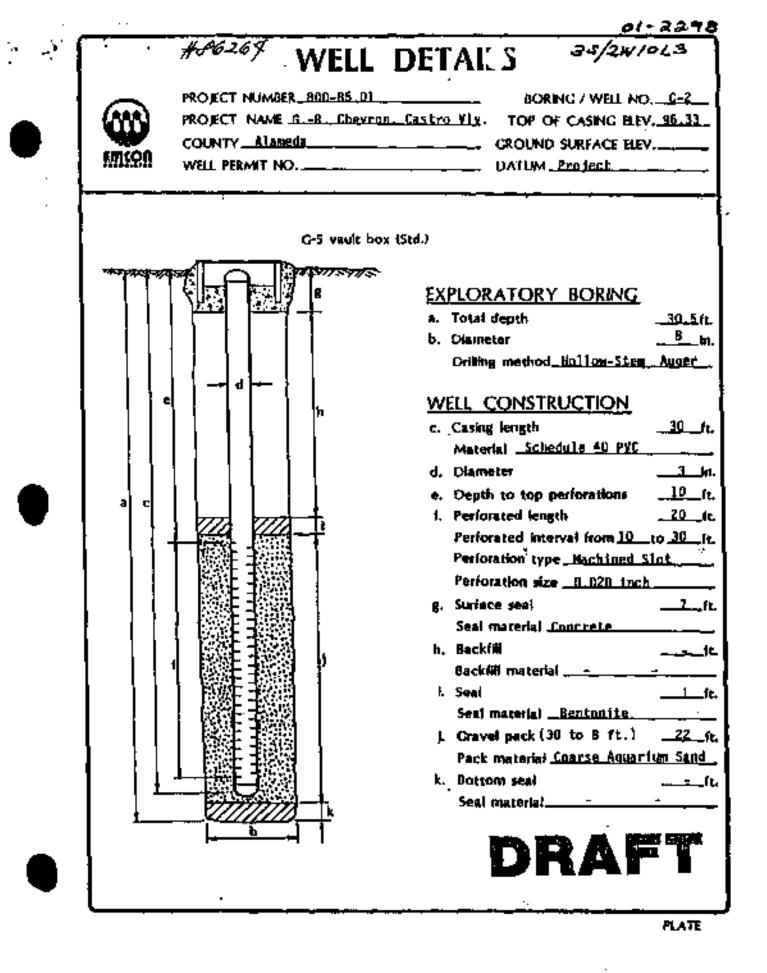
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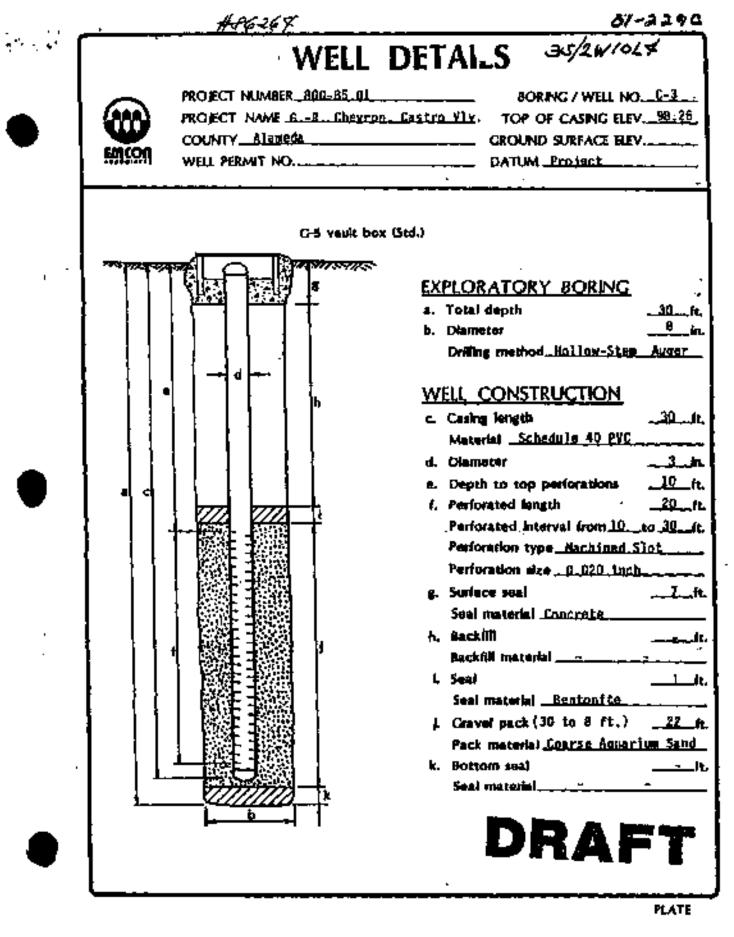
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W/V NO / <u>34/20/104361-225</u> LOG CF PHONEOT IN TOTS A DATE 10- 4- FE BOR MAG H C-2 LOCATION PEDNOD GRAVE CANTON YU Hent\_ EXPLORATORY BORING LOGARD BY EBL ONLIN 201400 EWCOL **H** . Í DITING BOTH BORE BUILT **1**1 até tecetion el borjeg: يتعفن 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  $g_{\ell}$ 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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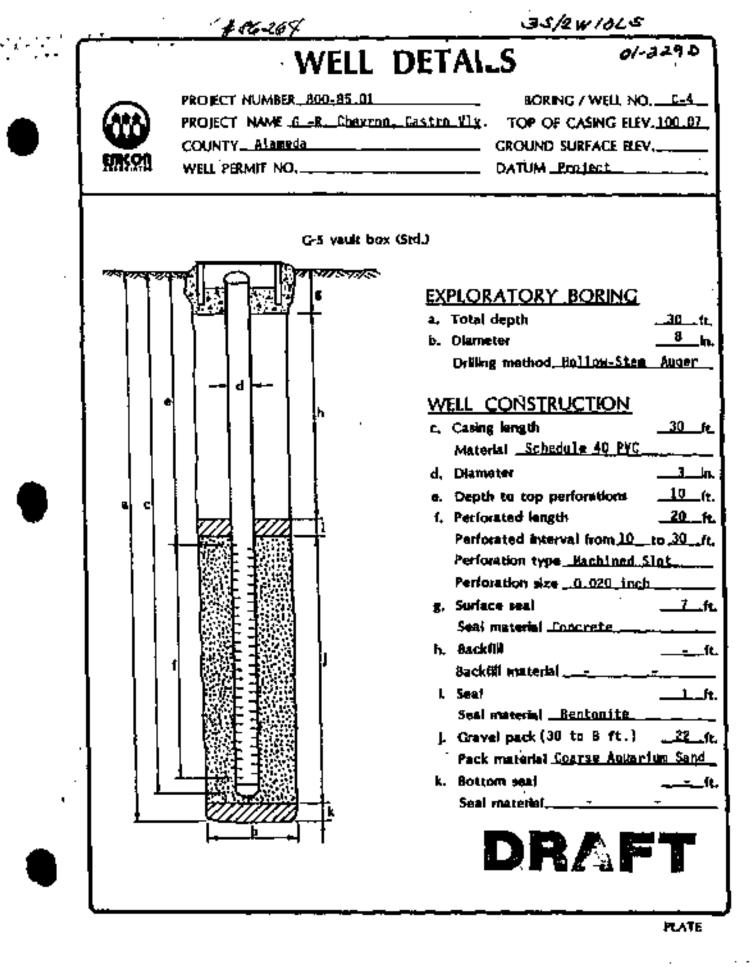


AVI AD! 355/2W/0L7 20 CT A-16-264 PROJECT No. 200-85. .DATE 10-04-86 BOAING No ļ LOG UF CLIENT G. P. CHEWOON ĺ, LOCATION REGINCODS GRANE CASTED VOY EXPLORATORY BORING Sheel. LOBERO BY. ESL\_\_ DANLER\_ EMCO Crilling method 1-5 AVER į. Field furntled of bering: Ser. S GRAVE Hall die 64 1 SLOTTED S' DUC 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 / *<del>486-267</del>* 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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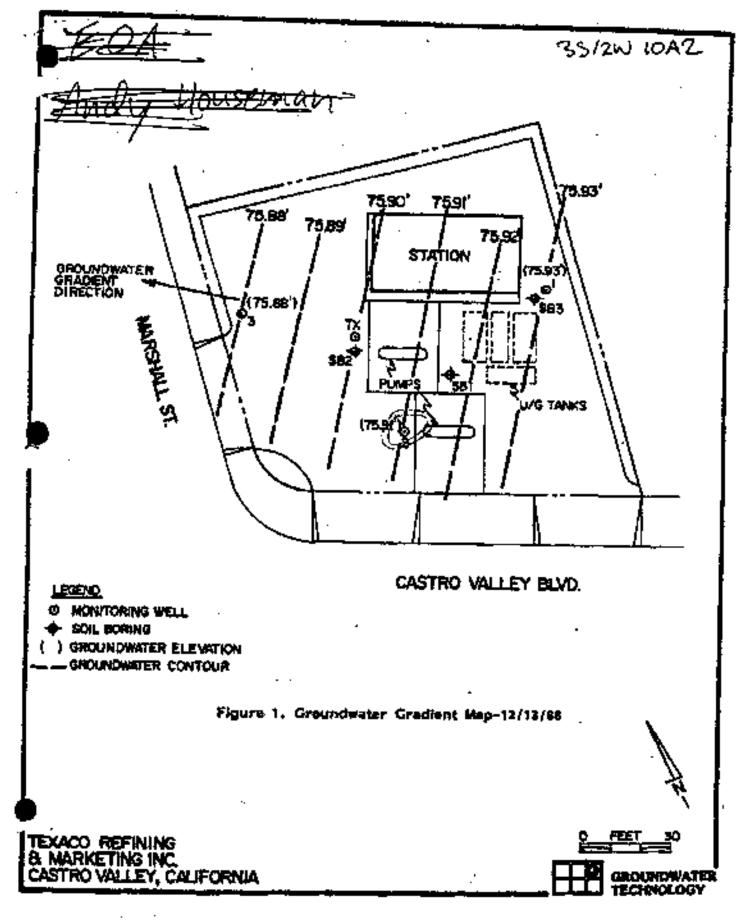
LAKESHORE FINANCIAL 35/2W 1044 3940 Castro Valley Blud Castro Valley

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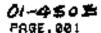
APRIL 8, 1987 BOTH Wells Fill MAD. CAPE WITH CONCANTE, CAPATTHE OXPTH & 7' BRIOW BOTHISTIN 31114 GRHDE ies pres - APPROKING ATALY TO ľ, 39<sup>58</sup> τ., Same 3940 12< 5.207 A CASIAL Existing to Ger Lin Inding S'C.L Meder Line Existing 6" V.C.P. Sonitory Sewer to be abondoned Construct 18" V.C.P. Sonitary Se on Line of Existing G" K.C.P. S. Existing Storm Plug Existing EAST CASTRO Work done by. Clark Construction

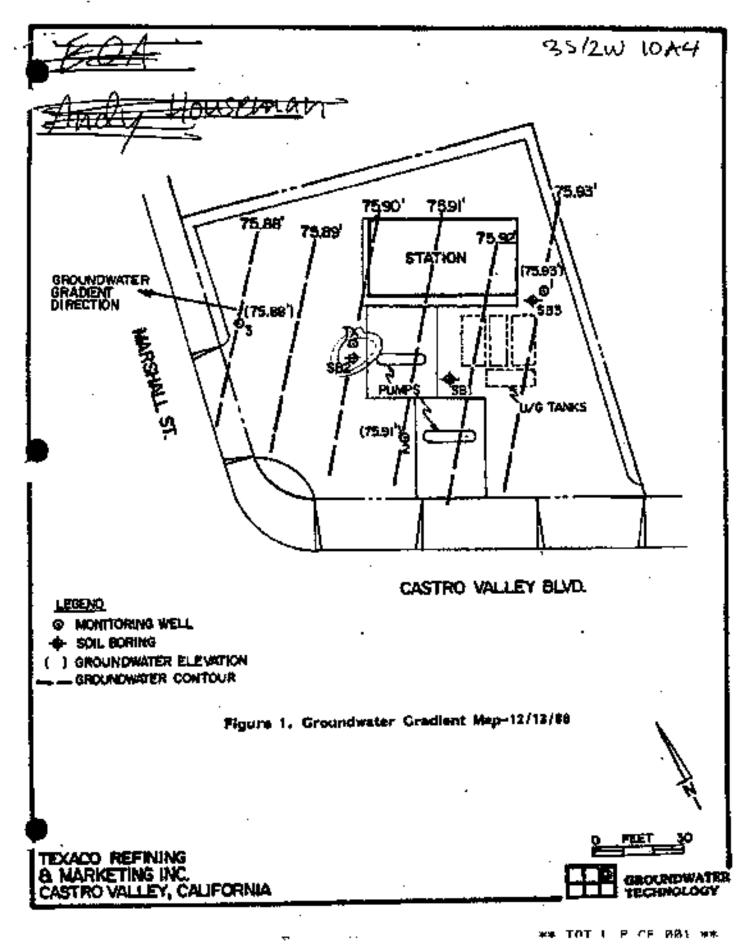
JUL " 6 '98 18:14 FROM ALAMEDA COUNTY PWA

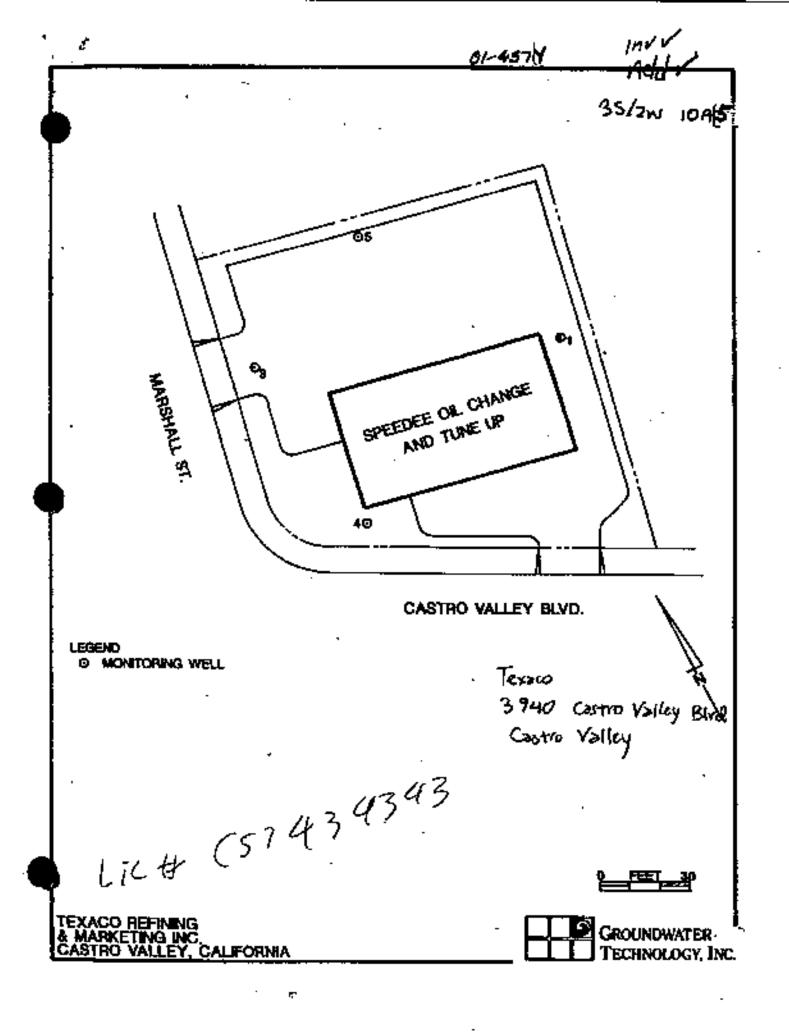
01-4504 PAGE, 801











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

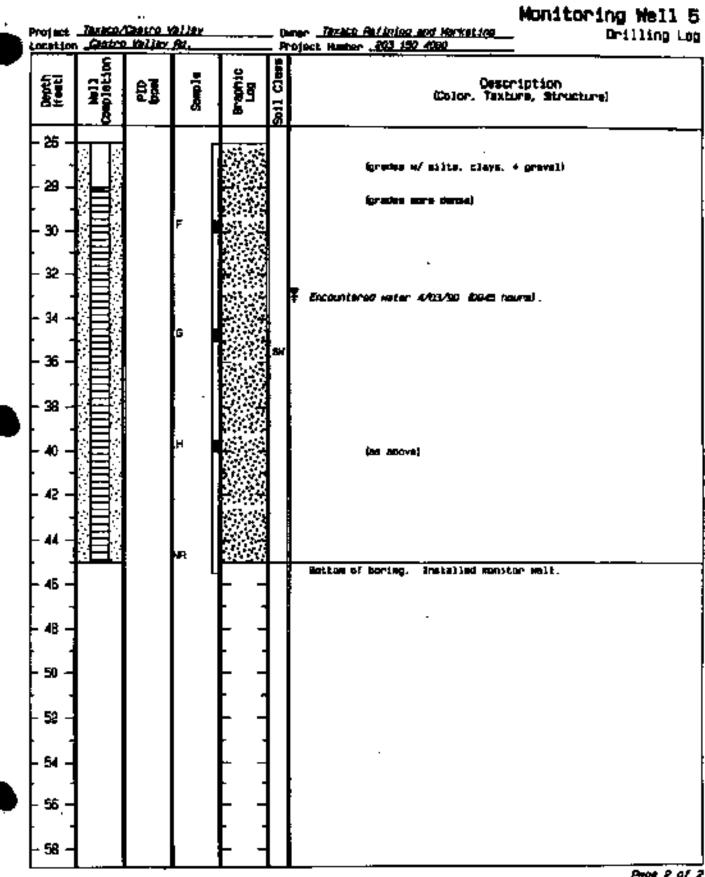
#### 35/21 10A b

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



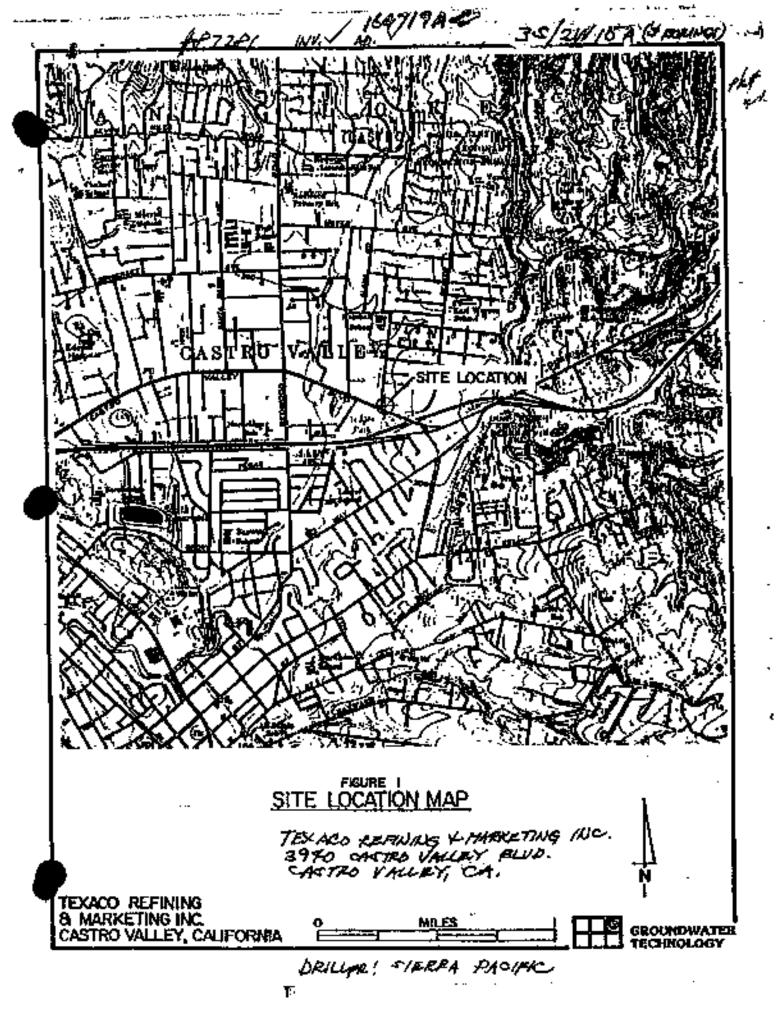
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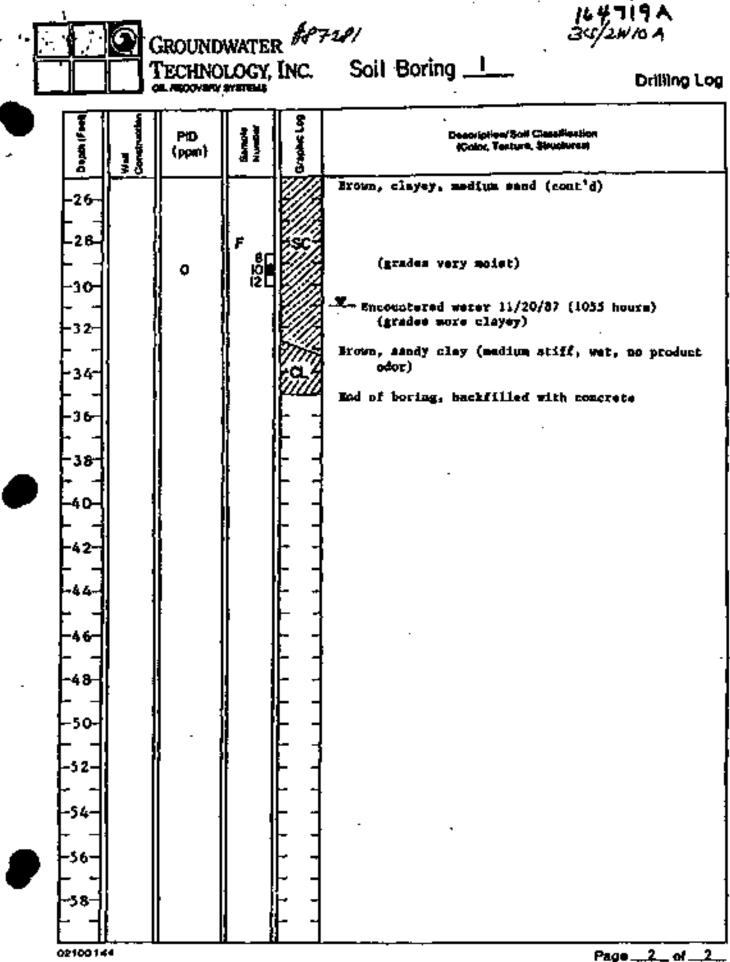
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| Lockbon<br>Data Dril<br>Burlace J<br>Scream (<br>Casing (<br>Drilling ( | Texato<br>Contro<br>Contro<br>Contro<br>Texato<br>Texato<br>Texato<br>Texato<br>Texato<br>Texato<br>Texato<br>Texato<br>Texato<br>Texato<br>Contro<br>Texato<br>Contro<br>Texato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

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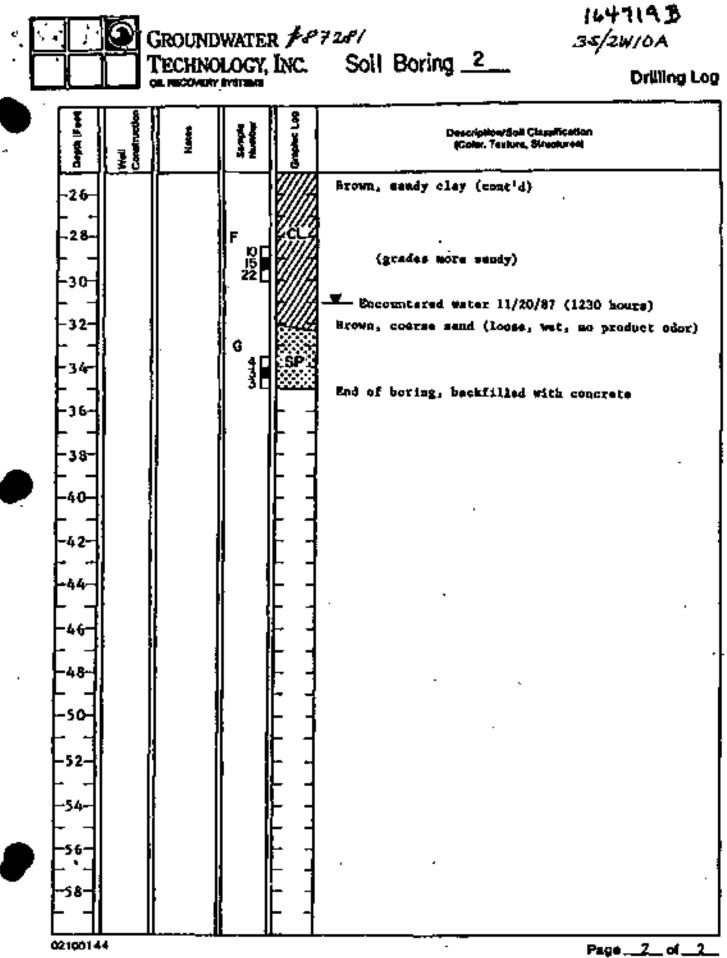
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|            |   |                    | OUNDW |  |             | LP/   | 35/2NIOA  |
| · [        | 1 1   | ŢŢ                 | CHNOU | OCY, 11  | NC.         |   | Drilling Log  |
| _ <u> </u> |   |                    |       |  | Ş           | oil 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<br>Continuetor | kolee |  | Braphic Leg | Description/Se  | Ciperification  |
| •          | - 0 -<br>- 0 -<br>- 2 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>- 4 -<br>-<br>-<br>- 4 -<br>-<br>- 4 -<br>-<br>-<br>- |                    |       | А 49<br>А 49<br>В 59<br>Ю<br>С <sup>6</sup><br>2<br>5<br>5 |             | 2 inches Asphalt over 5<br>Gray, sandy clay (mading<br>odor)<br>Brown, milty clay (stiff<br>(grades sandy)<br>Light brown claysy sand<br>product odor)<br>(grades more claysy<br>Light brown, silty clay<br>odor) | a stiff, dry, no product<br>(andium danse, dry, no<br>(stiff, dry, no product |
| •          | -18-<br>-20-<br>-22-<br>-22-<br>-22-  |                    |       | 0<br>5<br>4<br>4<br>E<br>8<br>6                            |             | Brown, sandy clay (media<br>Odor)<br>(gradas stiff)   | A stiff, dry, ou product  |
|            | 0210010   |                    |       |  |             |   | Peos 1_of 1_  |

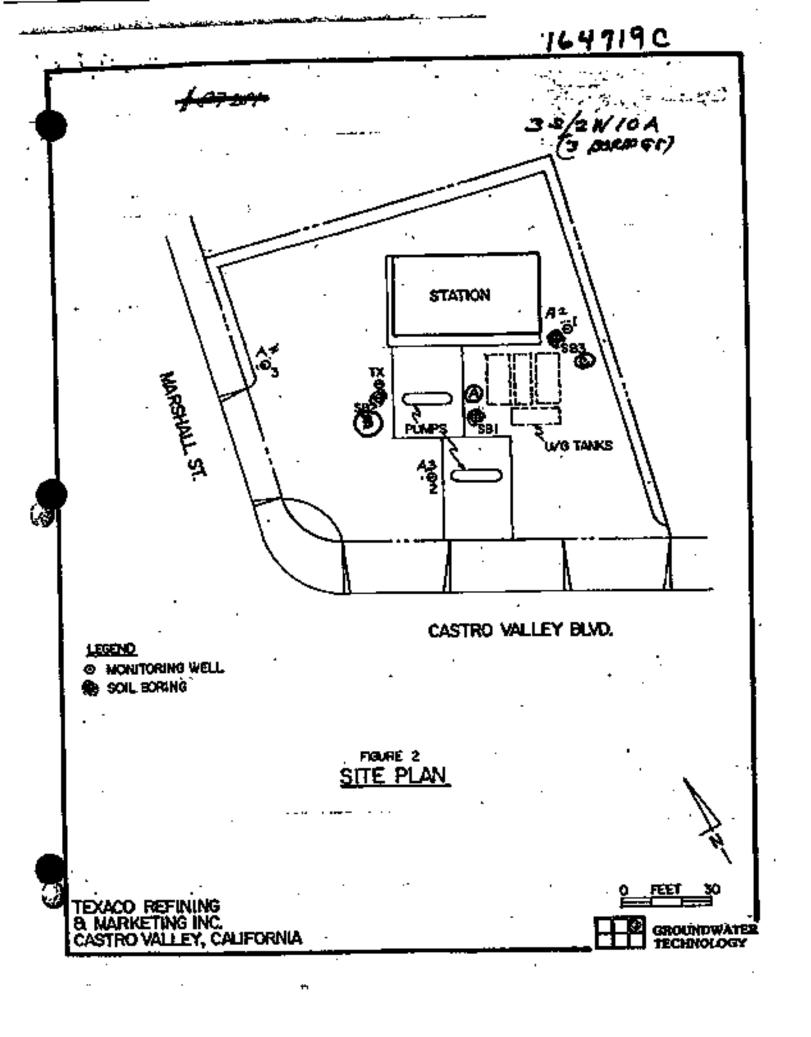
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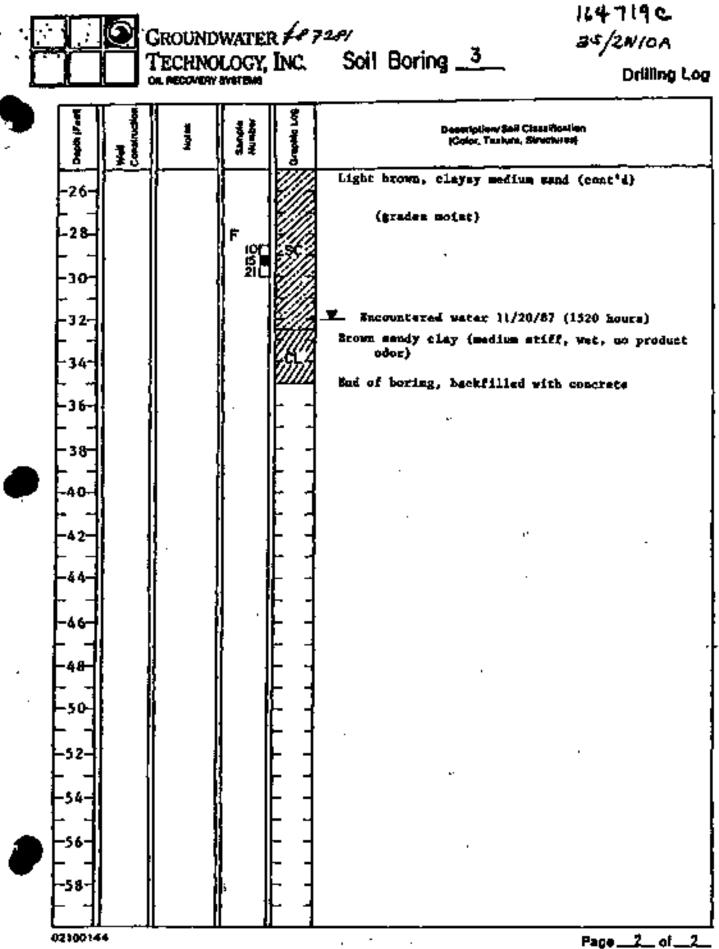


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|                          |                | ROUNDW      | _  | -           | <b>e</b> 1  | 164719 C<br>25/211/0A  |
|--------------------------|----------------|-------------|--|-------------|---|--|
|                          |                | ECHNOL      | OGY, 1<br>Istem  |             | oil Boring <u>3</u>   | Drilling Log   |
| Project                  | Texaco         | Castro Y    | alley  |             | Texaco Rafia, & Market.   | Skaleh Map   |
| Dete Dri                 | led 11/3       |             | Tot <b>el Cep</b> 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<br> of<br>/8,<br>28<br>-<br>5<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- |             | 2 inches asphalt over 5<br>Gray, sandy clay (medium<br>odor)<br>Light brown, silty clay<br>product ndor)<br>(grades sandy, less<br>light brown, sendy clay<br>product odor) | stiff, dry, mo product<br>(very stiff, dry, mo<br>milty)<br>(medium stiff, dry, mo |
| -14-                     |                |             | с<br>15<br>2)  |             | (grades gray-graan,<br>(grades vary stiff)  |  |
| 1 8-<br>- 1 8-<br>- 2 0- |                |             | D<br>6   |             | Light brown, claysy, med<br>dry, no product odo<br>(grades brown)   | ium sand (medium danse,<br>r)  |
| -2 2-                    | 1              |             | E  |             | (gtadas pore clayey)  | ,  |

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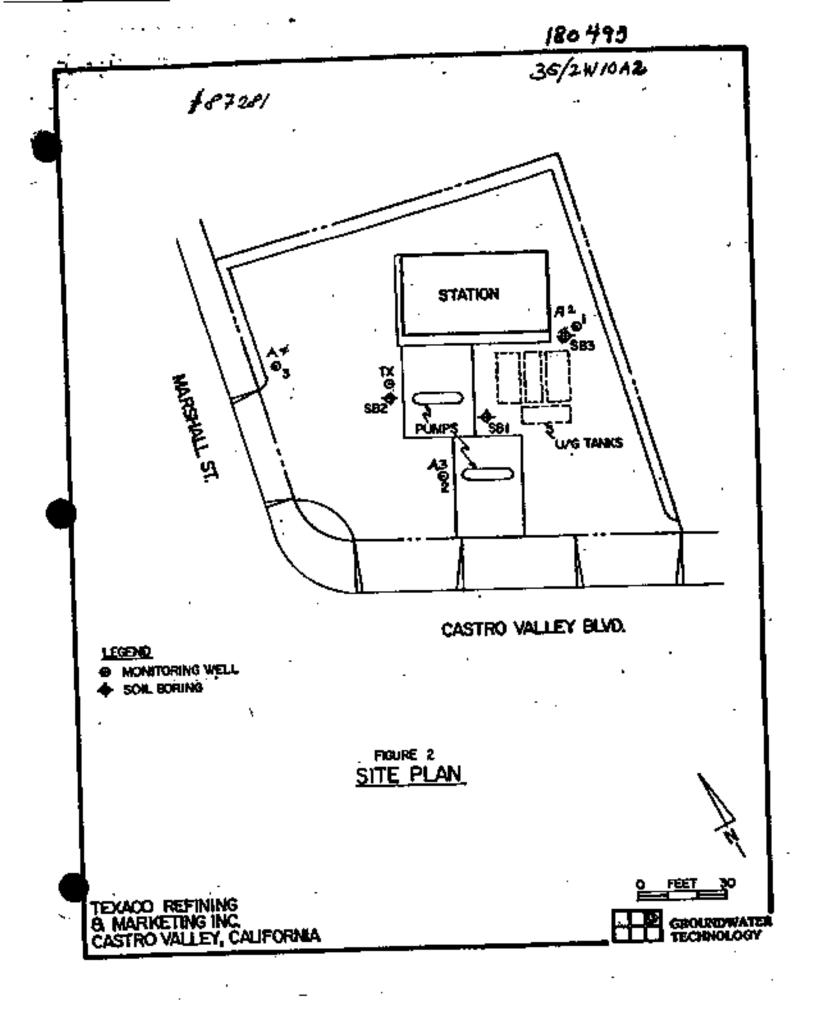
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#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

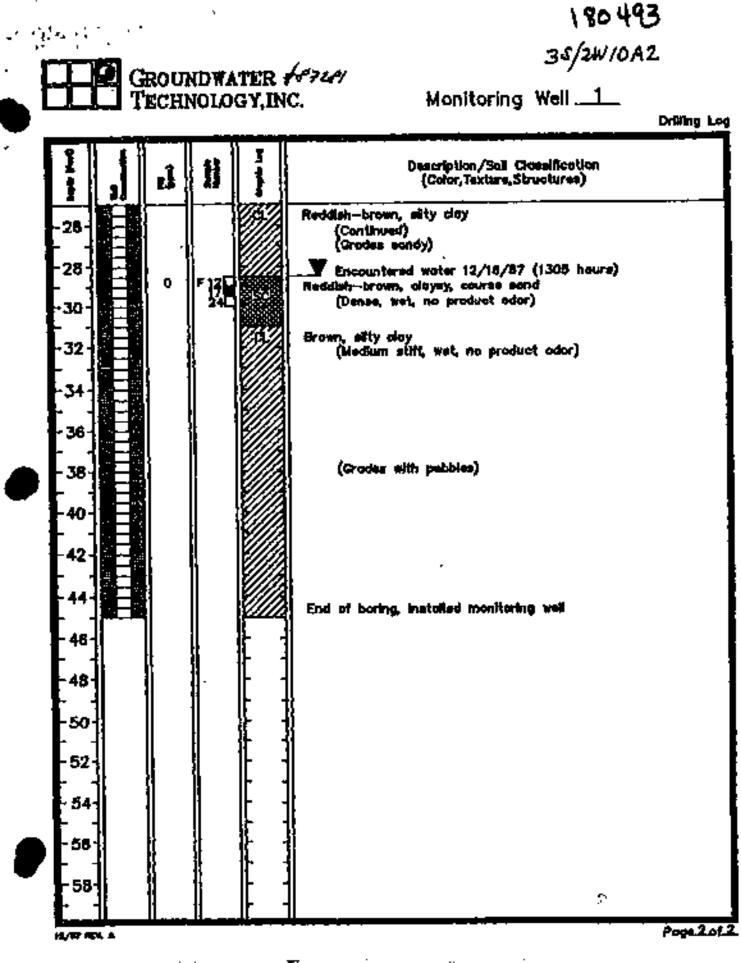
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|                                | .: '   | , <i>r</i>    |             |                 | 180 493<br>AD. V 256W1042   |
|--------------------------------|--|---------------|-------------|-----------------|---|
|                                | -  | ROUI          |             | ter ;           | \$87281 AD.V 35/2WIOA2  |
| 4U                             | L T  | echi          | 10100       | gy,in(          |   |
| Location<br>Date Dr            | iled.  | 12/16/        | 87 Jota     | i Depth         | Project Number 203-150-4080<br>of Hole 45 FT Diameter, 10.5 N.      |
| Surface                        | Devolution of the second secon | 601<br>4 [N.  |             | er Level<br>sih | INITION 28 FT 24-hour SEE SITE PLAN<br>40 ETStot Size .020 IN.      |
| Coeingt<br>Oriläng<br>Orilier_ | Olo<br>Compen  | y 965<br>1000 | RRA PA      | SFIC            | Drilling Method HOLLOW STEM AUGER<br>Log by JAN PRASE               |
|                                | et / En  | ginew.        |             |                 | Ucense No   |
| ž<br>1                         |  | eĴ            | 11          | -               | Description/Soll Closeffication<br>(Color, Texture, Structuree)     |
| <br>- 0 -                      |  |               |             |                 | 2 Inches of asphalt over 5 Inches base course                       |
| 2                              |  |               |             |                 | Dark brown, sandy, nity day<br>(Medium stift, dry, na product oder) |
| 9.                             | 3<br>1<br>1  | •             | ^ <u>jî</u> |                 | (Gradue light brown with black matiling, leas eandy, stiff)         |
| - 6 -                          |  |               |             |                 |   |
| 8-                             |  | 0             | 9 7         |                 | (Grades brown)<br>Light brown clayey, eilig, fine soud              |
| - 10-                          |  |               | 30          |                 | (Medium dense, dry, no product ador)                                |
| - 12 -                         |  |               | ic 3E       |                 |   |
| - 14-                          |  |               | <b>7</b> 1  |                 | Brown ality, olay<br>(Still, molet, no product odor)                |
| - 16<br>- 18                   |  |               |             |                 | (Grades eandy)  |
| - 20                           |  | 0             | 2           |                 | Brown elayey, fine cond<br>(Medium dense, molet, ne product oder)   |
| 22                             |  |               | ł           |                 | Brown ally day<br>(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<br>(FT.) | SINTING     | TOLUENE   | RTETL-<br>REVIII- | XYLAND    | DTEX        | \$02 | neterieri<br>Celorice | CELOROPORM | NYDRO-<br>CARBONI<br>(C4-12) | TPE AS<br>GASOLINE |
|---------|----------------|-------------|-----------|-------------------|-----------|-------------|------|-----------------------|------------|------------------------------|--------------------|
| 88 1 C  | (14-14.5)      | -           | MD        | MD-               | <b>ID</b> | <b>ST</b> D |      | -                     | -          | <b>P</b>                     | MD .               |
| 5917    | (29-29.5)      | <b>ND</b>   | 0.95      | XD-               | WD.       |             | 100  | 1.9                   | 4,025      | <b>J</b> D                   | 11D                |
|         |                | D           | <b>ID</b> | ¥D.               | ND.       | 100         |      |                       |            | ND.                          | MD                 |
| 5B 2 B  | ( 9- 9.5)      |             |           |                   |           |             | _    | -                     | _          | MD-                          | <b>XD</b>          |
| 58,27   | (28-28.5)      |             |           | 20                | ND .      | 10          | -    | -                     | -          | -                            |                    |
| 876 3 C | (14-14.5)      | XD.         | <b>ND</b> | XD                | MD .      | ) ID        |      | ÷                     | +          | <b>ED</b>                    | MD.                |
| 68 3 F  | (29-29.5)      | XD.         | LET D     | XD-               | in)       | MD-         |      | -                     | -          | 80                           | HD .               |
| 367 1 E | (24-24.5)      | <b>TD</b>   |           | 0.24              | 2.0       | -           | -    | 300                   | 100 I      | -                            | -                  |
| XW 2 K  | (24-24.5)      | 20          |           | ND.               |           | <b>ED</b>   | -    |                       | _          | 24-0                         | 14.0               |
| · – ·   |                |             |           |                   |           |             | -    |                       |            | MD.                          | ND                 |
| XW 3 X  | (24-24.5)      | <b>1</b> 10 |           | , MD              |           | <b>ED</b>   | -    | -                     | -          |                              |                    |

#### ABALYTICAL LANDAYONY RESULTS - NATER SAMPLES [DDb]

| ******                          | 194294                 | TOLOGIE             | İTRAL-<br>Desisini | XTLOR                       | ma                        | NISC.<br>EVERO-<br>CARBONS<br>(C4-12) | TPH<br>AS<br>CASOLINX    |
|---------------------------------|------------------------|---------------------|--------------------|-----------------------------|---------------------------|---------------------------------------|--------------------------|
| 83 3<br>354-2<br>161-2<br>161-3 | 70<br>15<br>220<br>302 | *<br>13<br>14<br>10 | 4<br>3<br>JD       | 1,400<br>190<br>150 -<br>MD | 1,709<br>228<br>390<br>TD | 27,000<br>1,900<br>2,000<br>ND        | 29,000<br>2,100<br>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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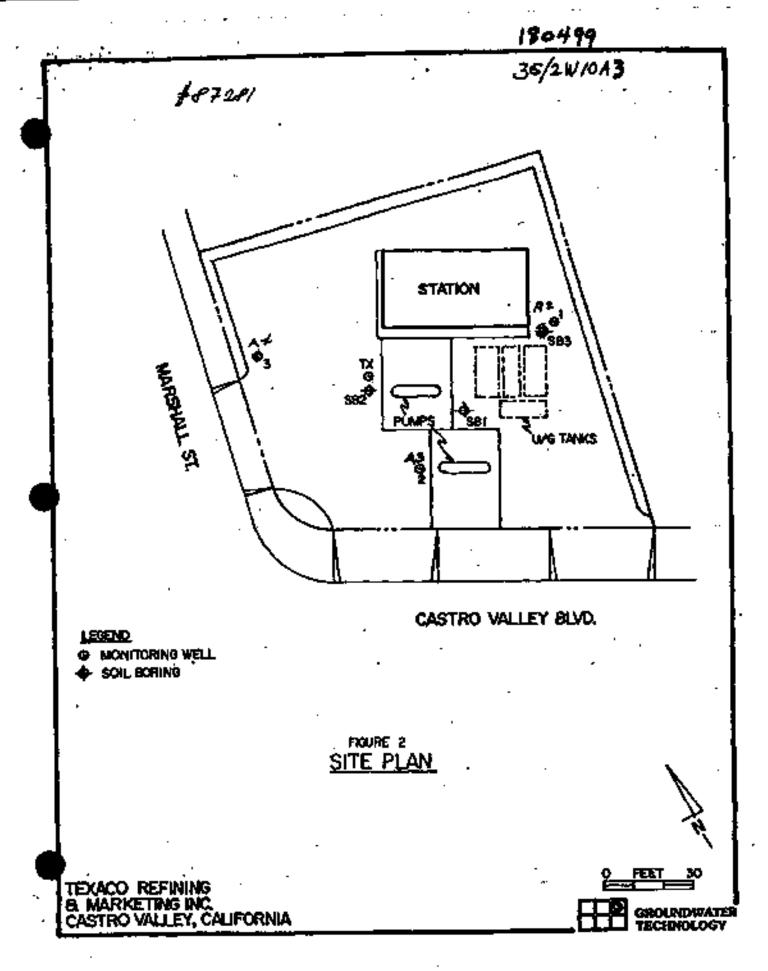
#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

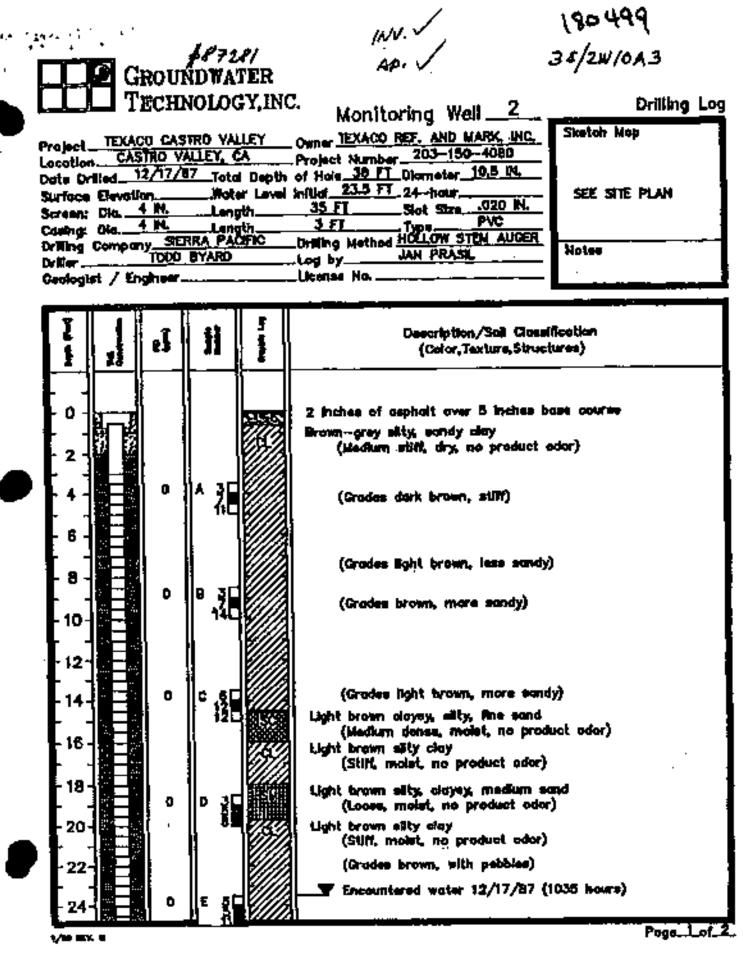
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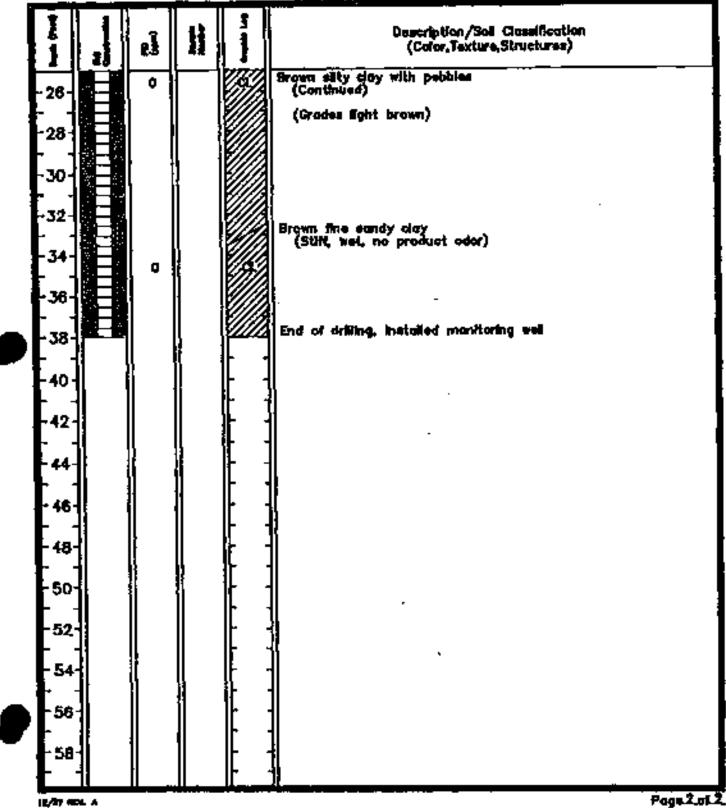
##72.P/ GROUNDWATER TECHNOLOGY, INC.

•••• (et al.)

## 180499 35/2W/0A3

Monitoring Well \_2\_

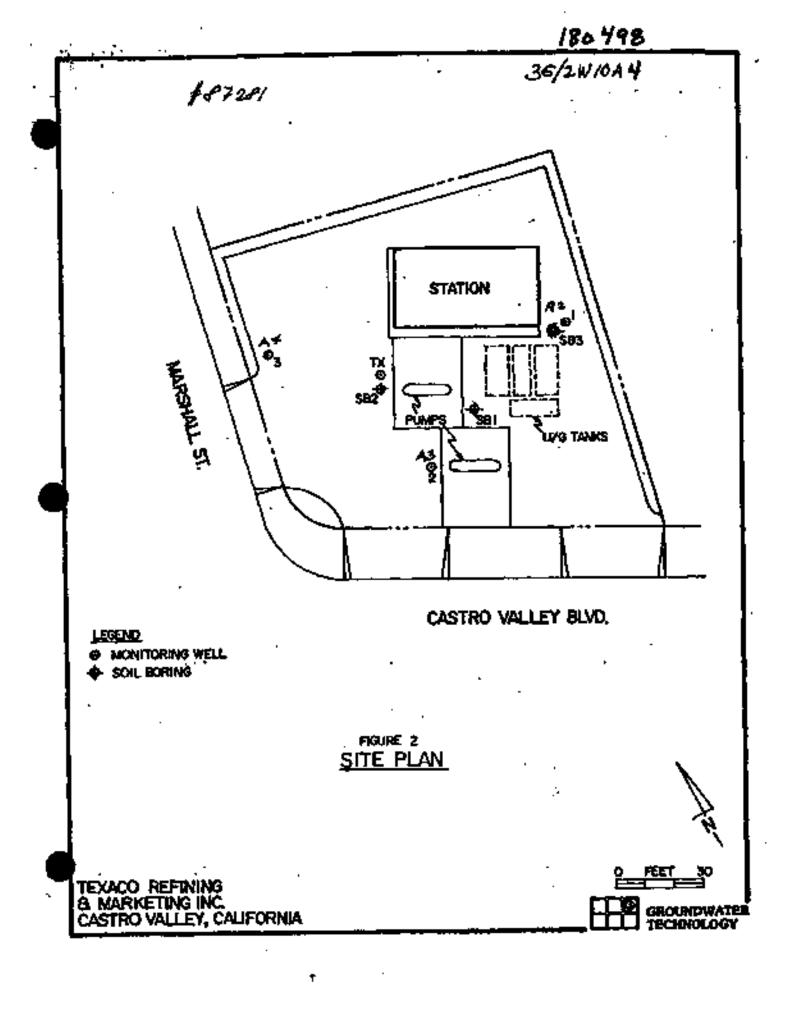
Orilling Log

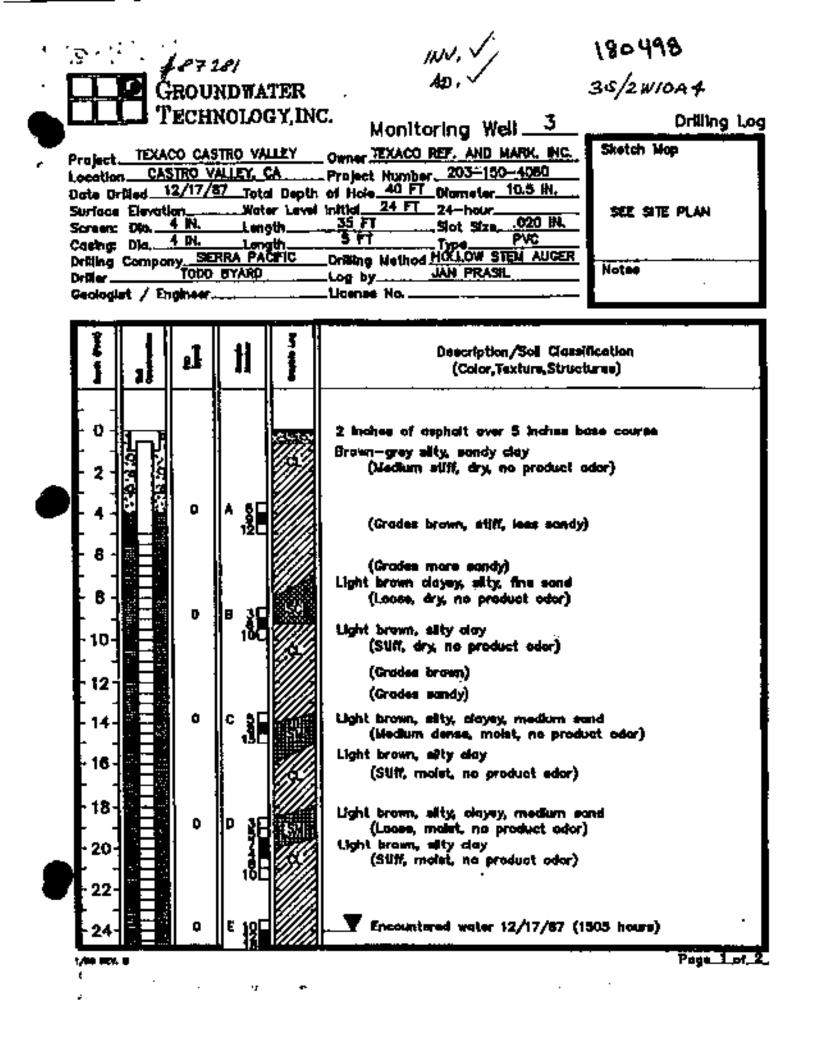


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#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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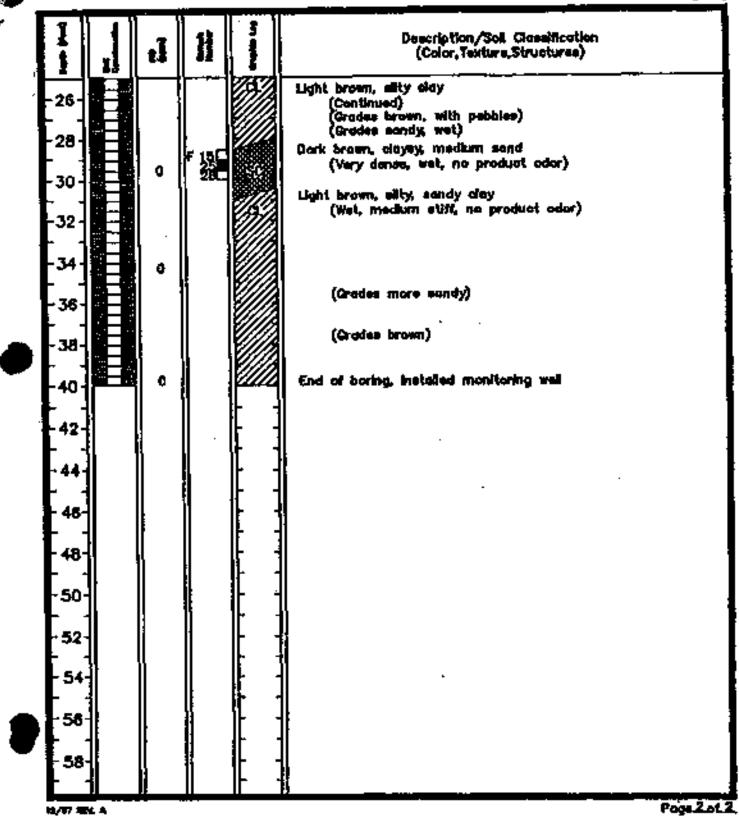


##728/ GROUNDWATER TECHNOLOGY,INC.

180498 35/2W/0A4

Monitoring Well 3

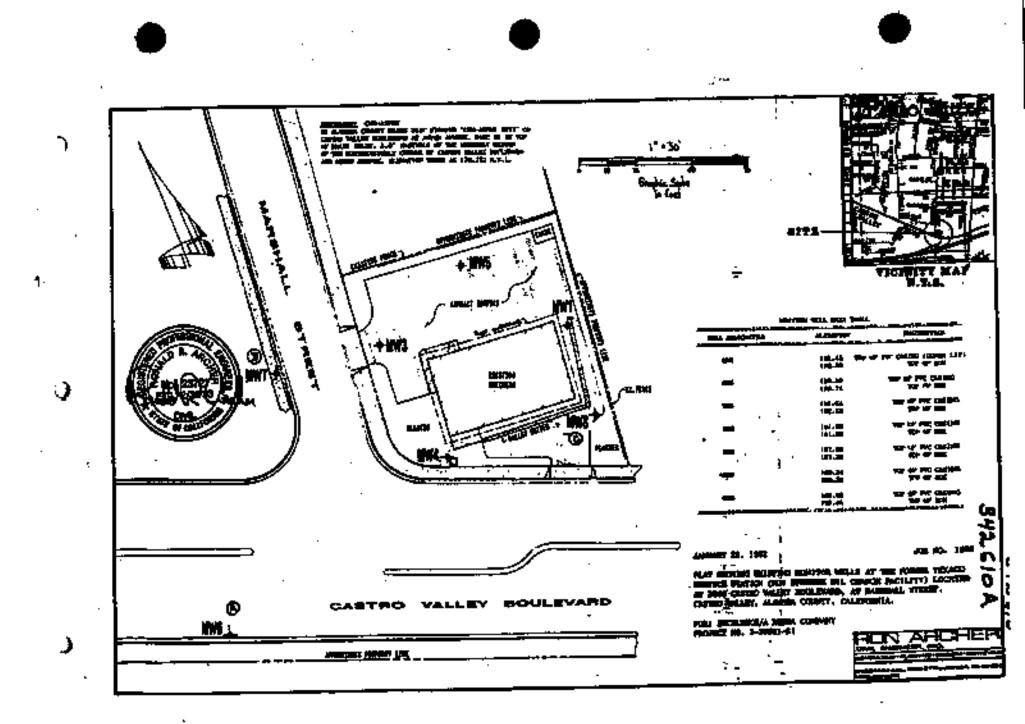
**Drifting Log** 



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#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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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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| 3 | 4 | 2 | 6 | 10 | A |
|---|---|---|---|----|---|
| _ | - | _ | _ | -  |   |

03502W10407

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

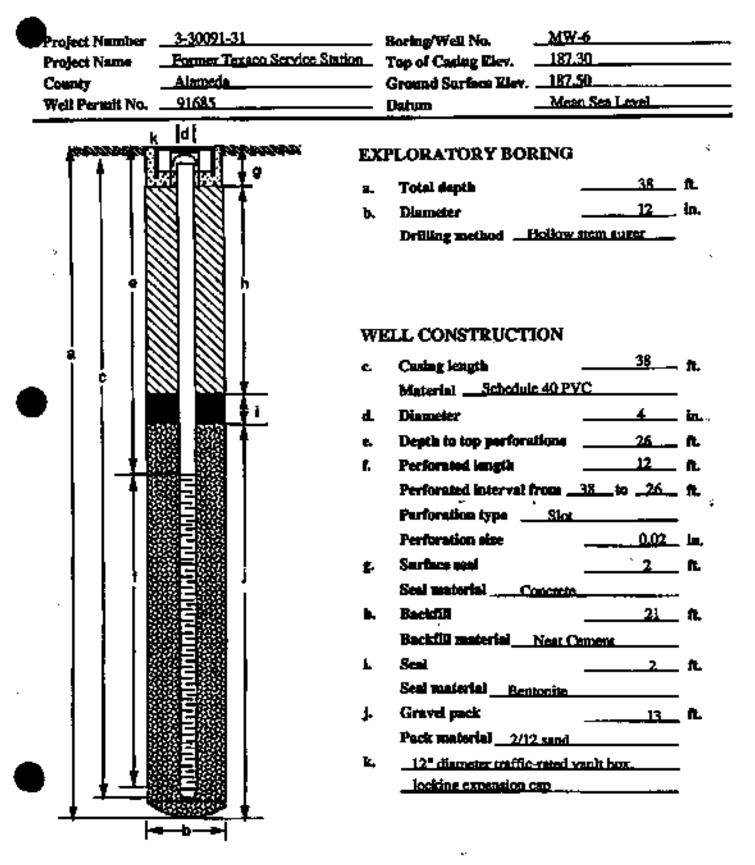
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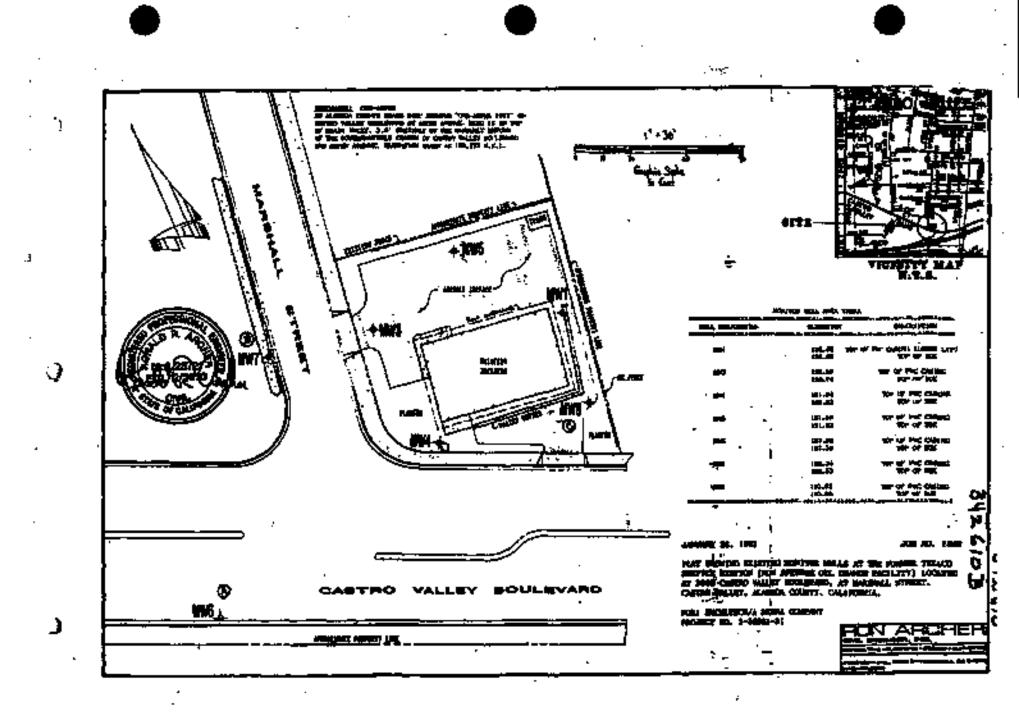


342610A 03502 Lotog

#### MONITORING WELL DETAIL



#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



342610B . 55000 40A08

EXPLORATORY BORING LOG

|   | •                            | ect Name   |                    | 3940 Ca<br>Castro V           | Fenace Service Station<br>pro Valley Boulovard<br>alley, Chilfornia<br>-31 Logged By: N. L. No   | at _                                |
|---|------------------------------|------------|--------------------|-------------------------------|--|-------------------------------------|
|   | Depth (ft.)                  | Sample No. | <b>Blows</b> (Fool | Unified Soil<br>Cassification | SOIL DESCRIPTION   | Water Lavel<br>OVM Reading<br>(ppm) |
|   |                              |            |                    | Р                             | 6" contront, 8" base<br>SILTY CLAY, pomible artificial fill, dark grayink brown (2.5Y 4/2), zilt<br>~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,<br>very stiff, damp<br>CLAYBY SAND brownish yellow (10YR 5/4), clay ~30%, medican dense,<br>moist | 4.0                                 |
|   | - 10<br>- 11<br>- 12<br>- 13 | 7-2-       | IJ                 | HEL.                          | SILT, Sight yellowish brown (10YR 6/4) clay =10%, and =15%, friable,<br>rootholies, microlayms, motion stiff, moist  | 32                                  |
|   | 14<br>15<br>16<br>17         | 7-3        | 22                 | SM.                           | -increasing moisture, sand<br>SILTY SAND, yellowish brows (10YR 5/4), sik =20-30%, fine-grained,<br>trace coarse gravels, subfilte dense, damp                           |                                     |
| D | - 18<br>- 19<br>- 20<br>- 21 | 7-4        | 23                 | ×                             | CLAY, brown (10YR 5/3), aik ~15%, and -5-10%, modium to high phonicity,<br>skiff, molet<br>REVIEWED BY B.G.JC.E.G.   | 4.0<br>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<br>Conditionation | SOIL DESCRIPTION   | Water Level | OVM Reading<br>(seem) |
|---|--------------|------------|--------------------------------|--|-------------|-----------------------|
| 22-22-22-22-22-22-22-22-22-22-22-22-22- |              |            | Ρ.                             | CLAY, continued<br>SILTY CLAY, yollowish beown (10YR \$41), silt =20-30%, very stiff,<br>moin.   | ¥           |                       |
| E.H                                     | 7-5          | 28         | н<br>194                       | -granit precised zone<br>SAND, yellowish brown (10YR: 54) poorly graded, alk = 10%, median<br>dense, sammind, small perched zone                               |             | ىە                    |
| - 28                                    |              | ъ          |                                | SILTY CLAY, yellowish hown (10YR 5/4), sik «20-30%, moist, sidt<br>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<br>- 37<br>- 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<br>REVIEWED BY R.G.C.E.G.   | Pare        | 2 07 2                |

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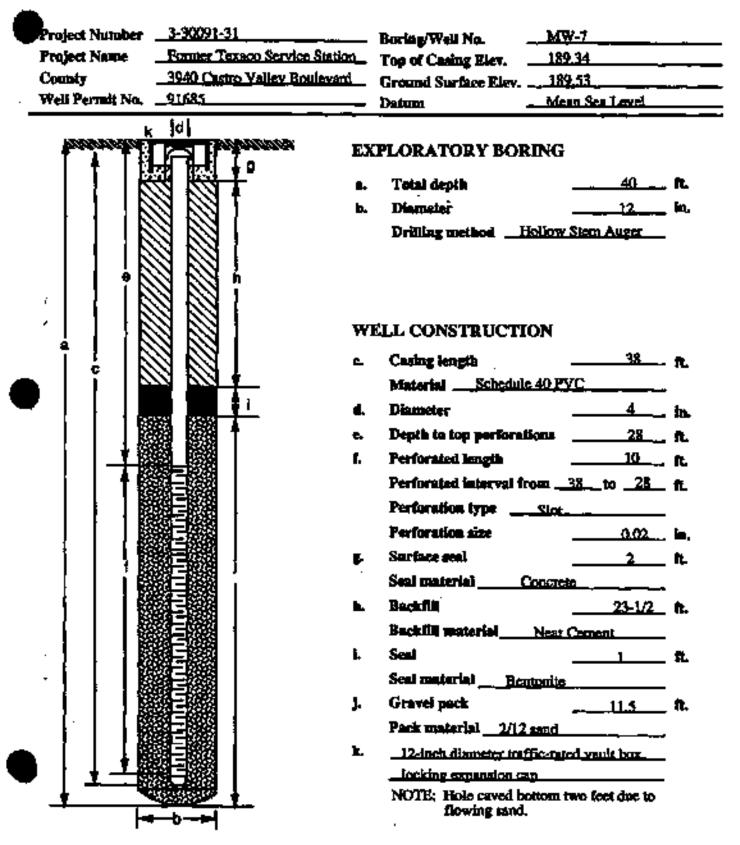
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#### MONITORING WELL DETAIL



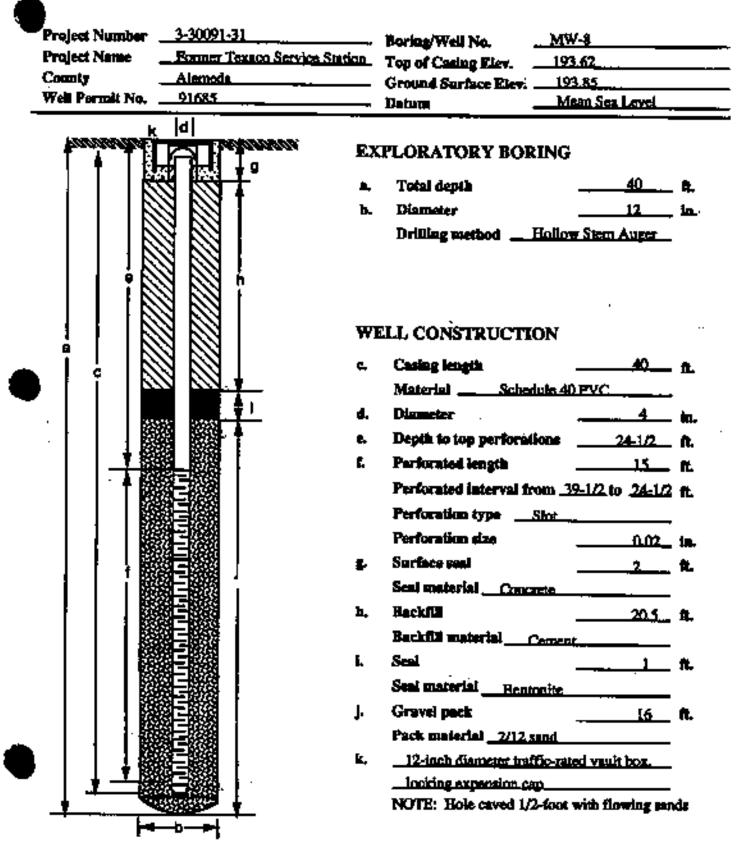
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#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

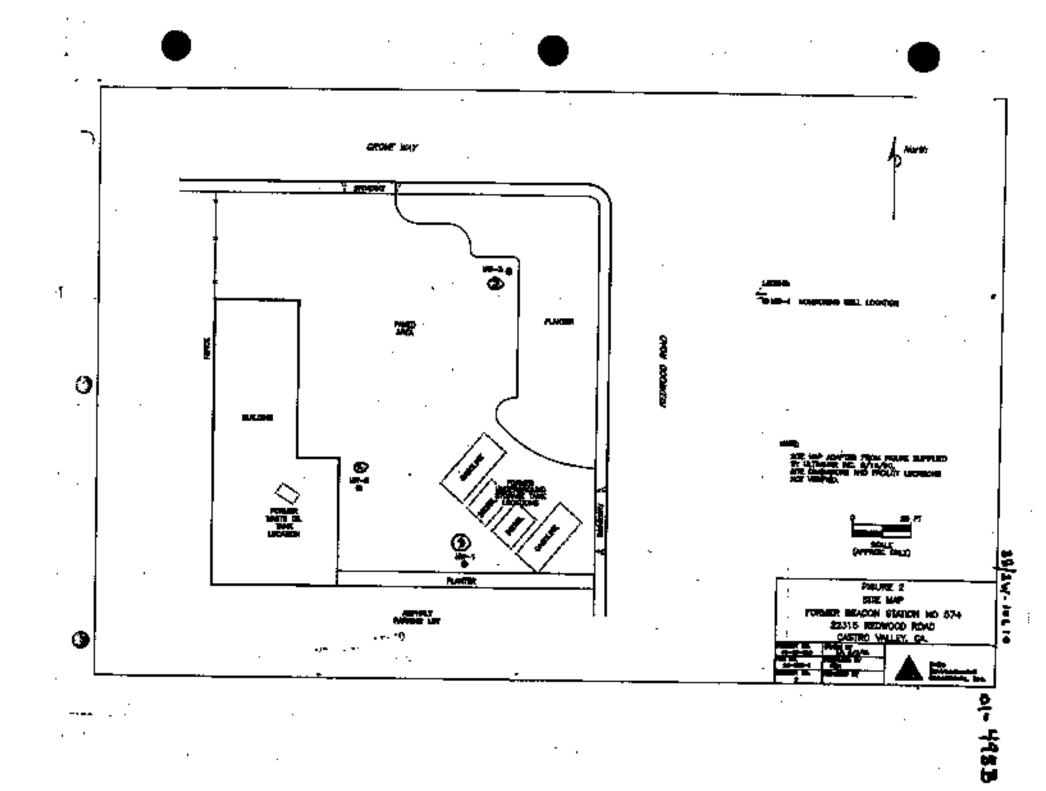
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343610 - 03502 Jakoy

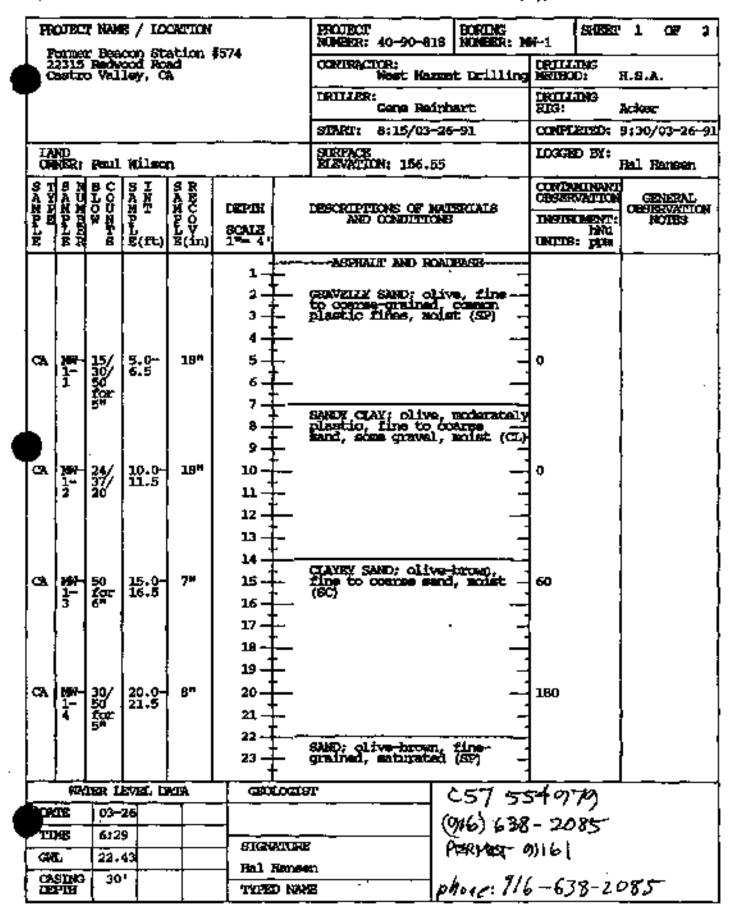
#### MONITORING WELL DETAIL



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01-4988 35/2W .10610 . ..



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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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01-4980

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3 5/2W IULIU

11 I I I TDE 6:29 SHOWING 4.1.2 GL 22.43 Hal Hansen CASING DEPTH 30' ε, TOTED NOME

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SAMPLE

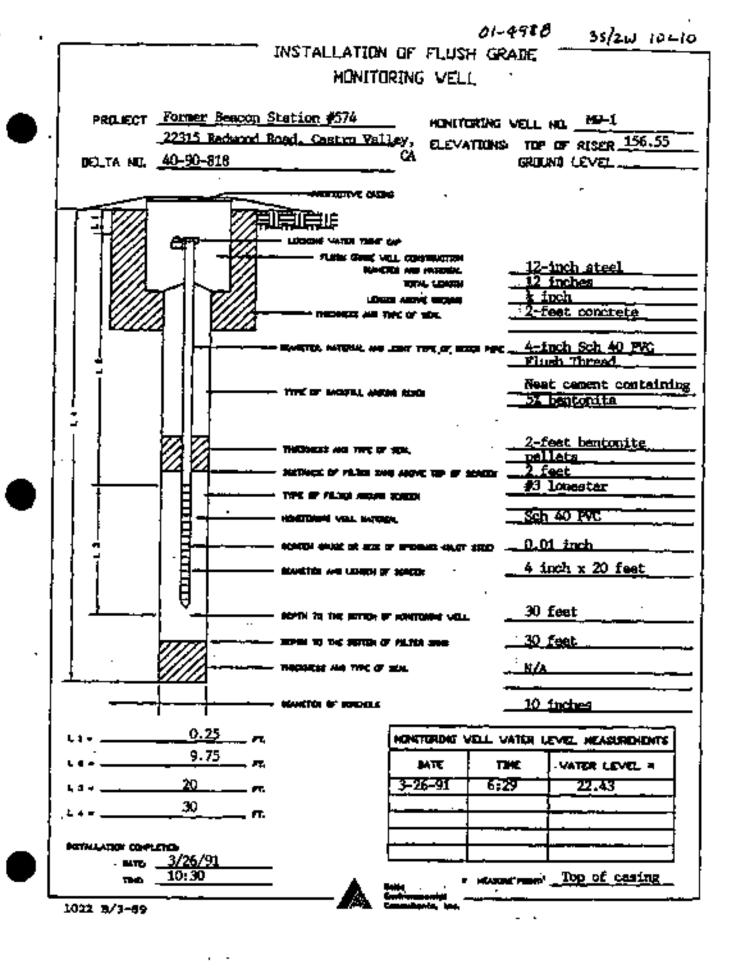
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GA,

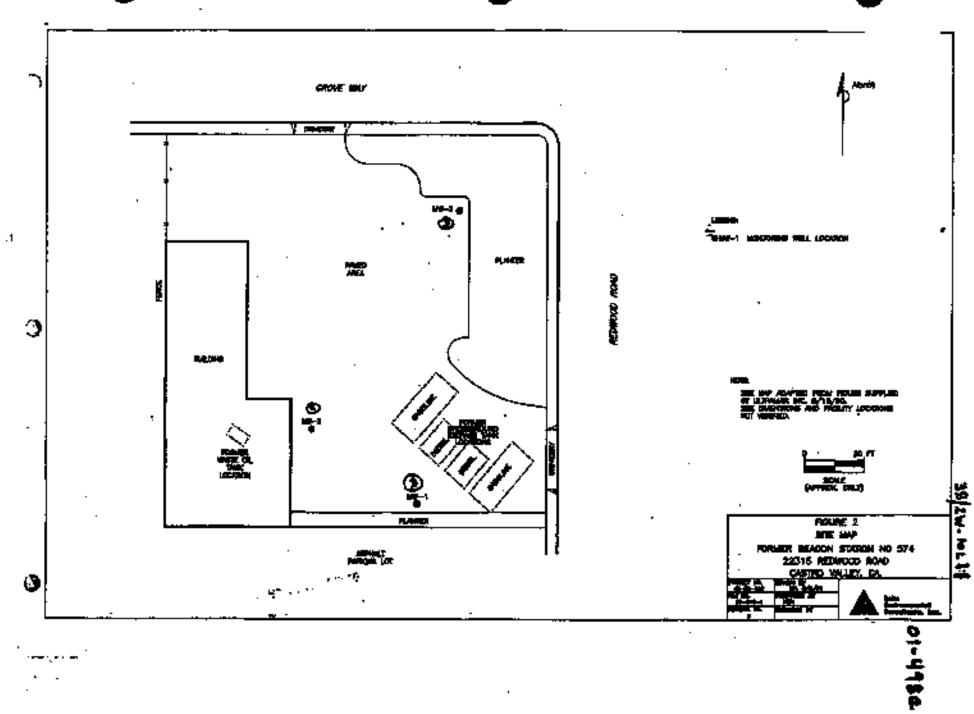
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01-498C 3 5/2W 10 -11

|            |                |                       | •                   | CATTON               |                   | PROTECT<br>NUMBER: 40-90-8   | 18 NUMBER: 1                 | <b>\$1-2</b>                                  | Shaat       | 1             | OP    | 2   |
|------------|----------------|-----------------------|---------------------|----------------------|-------------------|--|------------------------------|---|-------------|---------------|-------|-----|
| - 2        | 2315           | Recei                 | cod Ro<br>Ley, C    | ation ;<br>ad<br>X   | <b>1</b> 374      | COMEACTOR:<br>Weat: Ea   | zmat Daillin                 |   |             | .s.x.         |       | _   |
|            |                |                       |                     |                      |                   | ERILLER:<br>Gene Re  | NRILLING<br>RIG: Actor       |   |             |               |       |     |
|            |                |                       | _                   |                      |                   | 8TXRT: 10:30/0   | 3-26-91                      | 000012  | ARD: 1      | L:45/         | 03-26 | 6-9 |
|            | NPS:           |                       | Mileo               | n                    |                   | BURFACE<br>ELEVATION: 155.   | SURFACE<br>ELEVATION: 155.17 |   |             |               |       | n   |
| å j        | Ş N            | CODXH2                | នុរ                 | SR<br>AB<br>NC<br>PC |                   |  |                              |   |             |               |       | ,   |
| Sanple<br> | (Ř Ř           | ្លីប្ដី               | SI<br>An<br>NT<br>P | ŇČ<br>Po             | TRADI             | DESCRIPTIONS OF  | OBSERV                       |   | OBSE        | NERA)<br>KVAT | IC    |     |
| ן דָּ      |                | Ţ                     |                     | 11.0.1               | SCALE             | AND CONDER   |                              | 1969191                                       | 2000        |               | OTES  |     |
| В          | R N            | 8                     | ĩ(ft)               | Ĕ(ln)                | 1                 |  |                              | URCES:  | <u>1770</u> |               |       |     |
|            |                |                       |                     | ]                    | 1+-               | ASPEALT AND R  | CACEASE -                    | 1   |             |               |       |     |
| ļ          |                |                       |                     |                      |                   | GRAVELLY SAND: 0   | live, fine -                 | 1   |             |               |       |     |
|            | 1              |                       |                     |                      | 3 ±               | <ul> <li>CRAVELIN SAND; o<br/>to coarse-grains<br/>plastic fines, m</li> </ul> | 1                            |   |             |               |       |     |
|            |                |                       |                     |                      | <u>ـــــه</u>     | • • • • • • • • • • • • • • • • • • •  | /                            | 1   |             |               |       |     |
| a,         | <b>HH</b> -    | 207                   | 5.0-                | 78                   | 5                 | •  |                              | 115   |             |               |       |     |
| _          | 21             |                       | 6.5                 |                      | 6                 |  | -                            | <u> </u>                                      |             |               |       |     |
|            | <sup>-</sup>   | for<br>5 <sup>H</sup> |                     |                      | 7                 | SANDY CLAY, oliv<br>plastic, fine to<br>scae gravel, not                       | e, moteratel                 | 2   |             |               |       |     |
|            |                |                       |                     |                      | í Í               | some greval, not   | et (CL)                      | 7   | · '         |               |       |     |
|            |                |                       |                     | !                    | - +               | •  | _                            | 7   |             |               |       |     |
| 2          |                |                       |                     |                      | <u></u> *         |  | -                            | 1   |             |               |       |     |
| CV         | )<br>7-        | 288<br>85             | 10.0-               | 12*                  | <u> </u>          | •  |                              | 130   |             |               |       |     |
|            | 2              | 쨼                     |                     |                      | <u>"</u> +        |  | • •                          | -   |             |               |       |     |
|            | l i            |                       |                     |                      | ° <sup>12</sup> ∓ | -  | -                            | 1   |             |               |       |     |
|            |                |                       |                     | ·Į                   | "十                |  | -                            | 1   |             |               |       |     |
|            |                |                       |                     | i                    | _ ¥∔              | •  | -                            | -   |             |               |       | •   |
| C#         | 1947<br>2-     | 39/                   | 15.0                | 7*                   | ᅝᅟᆍ               |  | -                            | 90  |             |               |       |     |
|            | 3              | 19r                   |                     | i                    | 16 🕂              | •  | _                            | -   | 1           |               |       |     |
|            |                | ×                     |                     |                      | - 17 <del> </del> |  | -                            | ļ   |             |               |       |     |
|            |                |                       |                     |                      | 18-               | •  | _                            | -   |             |               |       |     |
|            |                |                       |                     |                      | _ 19∔-            |  | -                            | -1  |             |               |       |     |
| CA         | XH.            | 74.                   | 20.0<br>21.5        | 15*                  | 20 +              |  | _                            | 90  |             |               |       |     |
|            | <b>X</b><br>74 | ۲ <u>۶</u>            | 21.5                |                      | 21 -              |  | -                            | 1   |             |               |       |     |
|            |                |                       |                     |                      | 22 +              |  |                              | 1   |             |               |       |     |
|            |                |                       |                     |                      | 23 +              | SAND; clive-brow<br>grained, saturat   |                              | 4   |             |               |       |     |
|            |                |                       |                     |                      | <u>t</u>          |  | - ,                          | <u>i                                     </u> |             |               |       | _   |
|            |                |                       | anar 11             |                      | 9201.0            | Ter .  |                              |   |             |               |       |     |
| TX.        |                | 03~                   |                     |                      | 4                 | I  |                              |   |             |               |       |     |
| T          |                | 6:2                   |                     |                      | SIGNAT            | RR   | • • •                        |   |             |               |       |     |
| CN         |                | 20.                   |                     | _                    | - Hal Ba          |  |                              |   |             |               |       |     |
| CON        | SING<br>PIM    | 30                    | ۲I – ۳              | 1                    | TYPED             |  |                              |   | •           |               |       |     |

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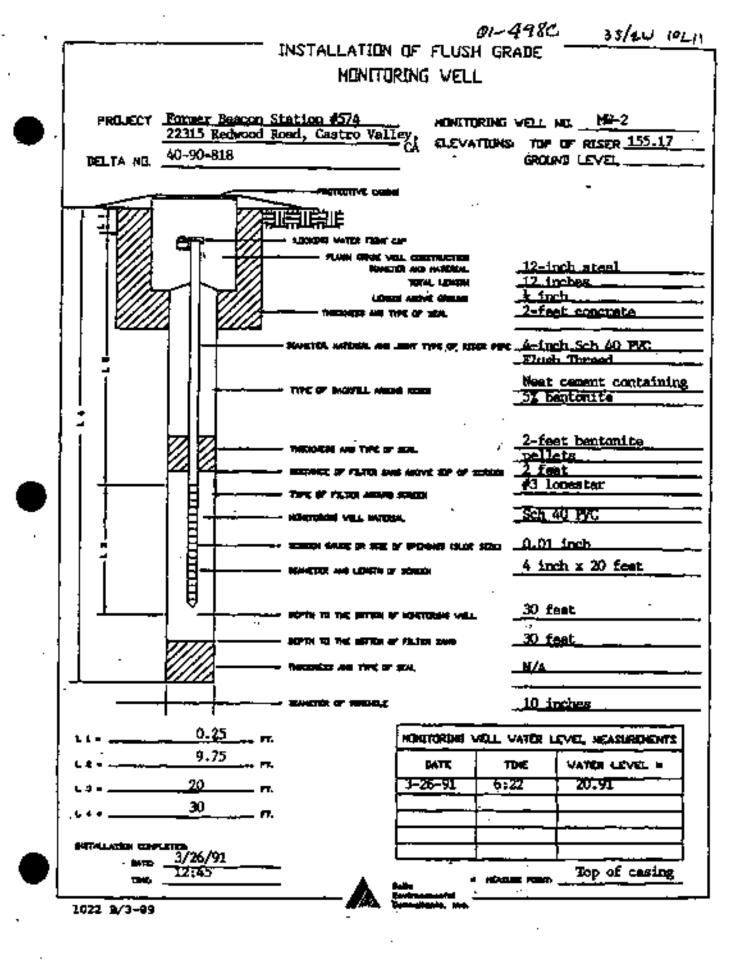
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|            |                       |  |                 |              |                 | PROJECT<br>NOMERRI       | 40-90-8           | 18           | BORING<br>NUMBER: M | <b>₩-2</b>               | GRURE         | 2     | <b>a</b> 2               |  |  |
|------------|-----------------------|--|-----------------|--------------|-----------------|--------------------------|-------------------|--------------|---------------------|--------------------------|---------------|-------|--------------------------|--|--|
| L 20       | 2315                  | Rech   | cod R<br>ley, C | nd i         |                 | CONTRACT                 | Nost Ba           | zmat         | . Deilling          |                          | ING<br>D:     | H.S.J |                          |  |  |
|            |                       |  |                 |              |                 | DRITTER                  | Gene No           | inhe         |                     | DRTLEING<br>Rüff: Achter |               |       |                          |  |  |
|            |                       |  |                 |              |                 | START: 10:30/03-26-91    |                   |              |                     |                          |               | 1:45/ | 03-26-9                  |  |  |
| -          | 102                   |  |                 | n            |                 | SURFACE                  | ON: 155.          | 17           |                     | LOCCED HY:<br>Hal Hamson |               |       |                          |  |  |
| 8 T<br>A P | 8 N<br>X D            | 8101<br>810<br>810<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81 | S I             | SR.          |                 |                          |                   |              |                     | CINIX                    |               |       |                          |  |  |
| San Ple    | ŇŇ                    | Î Î Î<br>Î Î Î   | s In<br>Mp      | NHCO;        | DEPIE           | DESCRIPT                 | CONSIGNATION      |              | TALE                |                          |               | CHER  | NERAL<br>RZAUICE<br>KUES |  |  |
| F          |                       | Ţ  | 11.             | ĒΫ́<br>Σ(in) | SCALE           |                          |                   |              |                     |                          | hite<br>2 ppm |       |                          |  |  |
|            |                       |  |                 | · · · ·      |                 |                          |                   | _            |                     |                          | - 64-         |       |                          |  |  |
| ≏          | 1<br>1<br>1<br>1<br>5 | 1  | 26.0<br>26.5    | 16"          | 25              | STURY SANG<br>Grained St | olive<br>and, mat | -bro<br>urat | 고 (武)               | 3                        |               |       |                          |  |  |
| ļ          | 2                     | 10   |                 |              | 26              |                          |                   |              |                     |                          |               |       |                          |  |  |
| ł          |                       |  |                 |              | 27.             |                          |                   |              | , i                 |                          |               |       |                          |  |  |
| ł          |                       | 8  |                 |              | 28 +<br>29 -    |                          |                   |              |                     |                          |               |       |                          |  |  |
| a          | 140                   | 147  | 30.0-           | 14*          | 30              |                          |                   |              | -                   |                          |               |       |                          |  |  |
| ۱ ۲        |                       | ¥  | 30.0-<br>31.5   | 14           | 31 I            |                          |                   |              |                     | Ð                        |               |       |                          |  |  |
|            | Ĭ                     | -  | Ι.              |              |                 | Total Dept               |                   | <br>         |                     |                          |               |       |                          |  |  |
|            |                       |  |                 |              | 33 I            |                          |                   |              | · -                 |                          |               |       |                          |  |  |
| <b>7</b>   |                       |  |                 | i            | 34 E            |                          |                   |              | 3                   |                          |               | l     |                          |  |  |
|            |                       |  |                 |              | 35              |                          |                   |              |                     |                          |               |       |                          |  |  |
| - 1        |                       |  |                 | ļ            | 36              |                          |                   |              |                     |                          |               |       |                          |  |  |
| ۰J         |                       |  |                 | ]            | 37 -            |                          |                   |              |                     |                          |               |       |                          |  |  |
| ł          |                       | . 1  |                 |              | 38 井            |                          |                   |              |                     |                          |               |       |                          |  |  |
| 1          | 1                     |  |                 |              | 39 井            |                          |                   |              |                     |                          |               |       |                          |  |  |
|            |                       |  |                 |              | 40 +            |                          |                   |              | ·                   |                          |               |       |                          |  |  |
|            | İ                     |  |                 |              | <b>4</b> ∓.∔    |                          |                   |              |                     |                          | - {           |       |                          |  |  |
|            |                       |  |                 | ·            | 42 +            |                          |                   |              |                     |                          |               |       |                          |  |  |
|            |                       |  |                 | Í            | 43. <del></del> |                          |                   |              | -1                  |                          | (             |       |                          |  |  |
|            |                       |  |                 | ļ            | 44              |                          |                   |              |                     |                          | 1             |       |                          |  |  |
|            |                       |  |                 |              | 45 <del>+</del> |                          |                   |              |                     |                          |               |       |                          |  |  |
|            | ł                     |  |                 | ĺ            | 46 —            |                          |                   |              | -i                  |                          |               |       |                          |  |  |
|            |                       |  |                 |              | 47 🕂            |                          |                   |              | -                   |                          |               |       |                          |  |  |
|            | 4920                  |  | WEL D           |              | GEOLOGIA        |                          | ·                 |              | 1                   |                          | ļ             |       |                          |  |  |
| TT.T       |                       | 03-  |                 | <u> </u>     | +               |                          |                   |              |                     |                          |               |       |                          |  |  |
| TD.        | ŀ                     | 5:2  |                 | 1            |                 |                          |                   |              |                     |                          |               |       |                          |  |  |
| GЯ         |                       | 20.9   | 91              | 1            | STORMOR         |                          | .· .              | •            | -                   |                          |               |       |                          |  |  |
| <u>gu</u>  | ING<br>TH             | 30   | •               |              | Bal Bang        |                          |                   |              | · .                 | _                        |               |       |                          |  |  |
| 0.00       | Ш                     | 1  |                 | ł            | TYPED NA        | æ                        | ·                 |              |                     |                          |               |       |                          |  |  |

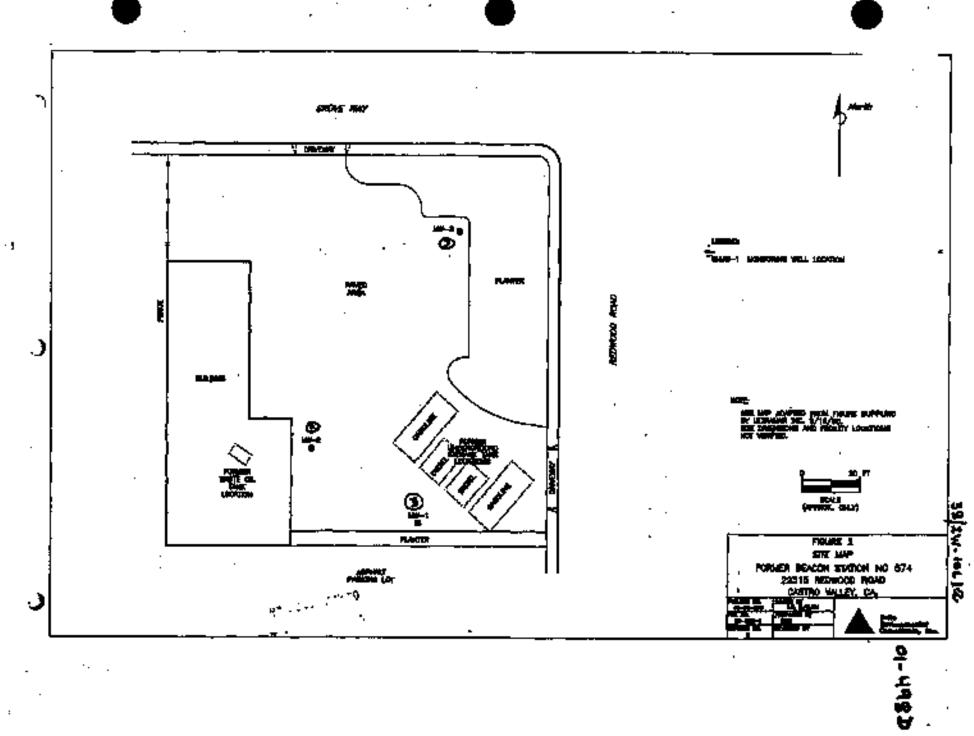
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| Ĩ  |              |              |                             | •                          | CREDON             |                            | PROJECT<br>NUMBER: 4       | 0-90-918          | BORING<br>NUNBER: M | #-3                    | SHORE      | 1     | 0             | 2    |  |
|----|--------------|--------------|-----------------------------|----------------------------|--------------------|----------------------------|----------------------------|-------------------|---------------------|------------------------|------------|-------|---------------|------|--|
|    | . 23         | 2315         | Rocks                       | con St<br>cod Ro<br>Ley, C | ation (<br>MG<br>N | 574                        | CONTRACTO                  | R:<br>est Bazna   | t Orilling          |                        | ang<br>Di  | R.S.A | <u>۱</u>      | -1   |  |
| ۷. |              |              |                             |                            |                    |                            | DRILLER:                   | ono Reinh         |                     | IRILLING<br>RIG: Acker |            |       |               |      |  |
|    |              |              |                             |                            |                    |                            | START: 1                   | 140/03-26         | -91                 | COMPL                  | ener):     | 3:00/ | /03-24        | 6-91 |  |
|    | 121          |              | Paul                        | Wilco                      | n                  |                            | SURFACE<br>SLEVATION       | 1 157.13          |                     | 10002                  | d by:      | Hal H |               |      |  |
|    | БТ           | BN           | BC                          | εī                         | S R                |                            |                            |                   |                     |                        | NINANT     | \$    |               |      |  |
|    | exa<br>Prefe | Àÿ           | BLON<br>BLON                | UNIT I                     | SANCO              | DESTIN                     | 055480200                  | NE OF MAL         | RÏĂĬA               |                        | SATION .   | CEE   | NERA<br>SKVAT | ion  |  |
|    | P E          | FB           | ŇŇ                          | P<br>L                     | ₽Ş                 | SCALE                      |                            | ONDEFFICIE        |                     |                        | nen:<br>Du | ľ     | OTES          |      |  |
|    | Ĩ            | ĨĨ           | Ê                           | 3(ft)                      | L Ť<br>E(In)       | 1"= 4"                     |                            |                   |                     | UNITS                  | : Hu       | L     |               |      |  |
|    |              |              |                             |                            |                    | 1                          | - ASTERIO                  | AND ROADS         | ASD                 |                        |            |       |               |      |  |
|    |              |              |                             |                            |                    | i I i                      | AND; incom                 | - <b>11:2</b> -75 | ained, -            |                        |            |       |               | 1    |  |
|    |              |              | •                           |                            |                    | +                          |                            |                   | <i>•</i> ,          |                        |            |       |               | 1    |  |
|    |              |              |                             |                            |                    | 3-                         |                            |                   |                     |                        |            |       |               |      |  |
|    |              |              |                             |                            |                    | 4+                         |                            | •                 |                     |                        |            |       |               | ł    |  |
|    | Ċ <b>X</b>   | 3-           | ¥                           | 5.0-<br>6.5                | 19 <sup>H</sup>    | 5+                         |                            |                   |                     | 0                      |            |       |               |      |  |
|    |              | 31           | 37                          |                            |                    | ₅∔⊷                        |                            |                   |                     |                        |            |       |               |      |  |
|    |              |              |                             |                            |                    | 7+-7                       | TAV: destr                 | oray lig          |                     |                        |            |       |               |      |  |
|    |              |              |                             |                            |                    | - <b>8</b> -∓- i           | CLAY, dark<br>plastic, no  | let (ci)          |                     |                        |            | ]     |               |      |  |
|    |              |              |                             |                            |                    | ৽∔                         |                            |                   |                     |                        |            | ļ     |               |      |  |
|    | a            | <b>187</b> - | 16/                         | 10.0-<br>11.5              | 7"                 | 10 +                       |                            |                   |                     | 0                      |            | 1     |               |      |  |
|    |              | 3-           | 16/                         | 11.5                       |                    | <u>n</u> ‡                 |                            |                   | _                   |                        |            | Į.    |               |      |  |
|    |              | <b>–</b> .   |                             |                            |                    | 12-1                       |                            |                   | <u> </u>            |                        |            | Í     |               |      |  |
|    |              |              |                             |                            |                    | 13 +                       | SMOY CLAY;<br>porterrately | olive-le          | com,                |                        |            |       |               |      |  |
|    |              |              |                             | 1                          |                    | u.I.                       | (œ.)                       |                   |                     |                        |            |       |               |      |  |
|    | ~            |              |                             | 15 0-                      | 87                 | ла<br>Б                    |                            |                   | -                   | 1                      |            |       |               |      |  |
|    | CJ           | 1            | ₩                           | 15.0-<br>16.5              | • ·                | - <del>-</del>             |                            |                   | -                   | •                      |            |       |               |      |  |
|    |              | E            | <b>for</b><br>5"            |                            |                    | 16                         |                            |                   |                     |                        |            |       |               |      |  |
|    |              |              |                             |                            |                    | 17 +                       |                            |                   |                     | 1                      |            | 1     |               |      |  |
|    |              |              |                             |                            |                    |                            |                            |                   |                     | ſ                      |            | 1     |               |      |  |
|    |              |              | }                           |                            |                    | 19 <del></del>             |                            | olive             | - vietnetz          | 1                      |            |       |               |      |  |
|    | <b>Q</b>     | 9<br>3       | 50<br>£07<br>6 <sup>8</sup> | 20.0-<br>21.5              | 7=                 | <b>20</b> - <del>]</del> 5 | PLASEIC, V                 | ay solat          | (21)                | } 8                    |            |       |               |      |  |
| 1  |              | 17           | 188 C                       | 4.5                        | 1                  | 21-                        |                            |                   | _                   | 1                      |            | ļ     |               |      |  |
|    |              |              |                             |                            | [                  | 22                         |                            |                   |                     | 1                      |            | ļ.    |               |      |  |
|    |              |              |                             |                            |                    | 23                         |                            |                   | _                   | 1                      |            | 1     |               |      |  |
|    |              |              |                             |                            |                    | <u>+</u>                   |                            |                   |                     |                        |            |       |               |      |  |
| _  |              | _            |                             | EVEL D                     | MIA.               | GEOLOGI                    | 9T                         |                   |                     |                        |            |       |               |      |  |
|    | D.           | 117.<br>1    | 03-                         | 26                         |                    |                            |                            |                   |                     |                        |            |       |               |      |  |
| •  | TI           | 1402         | 6:1                         | 4                          |                    | STONATUR                   |                            |                   |                     |                        |            |       |               | 1    |  |
|    | ð            | L            | 21.                         | 62                         |                    |                            | Kal Ransen                 |                   |                     |                        |            |       |               |      |  |
|    |              | Sïn<br>Pih   | ; 30                        | "                          |                    | TYPED NA                   | -                          |                   |                     |                        |            |       |               |      |  |
|    |              | <u>е</u> ш   |                             | <u> </u>                   |                    |                            |                            | I                 |                     |                        |            |       |               |      |  |

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|                            |               |                 |                      | CKTON<br>ation   |  |                                 | PROJECT<br>NUMBERS                   | 40-90-818               | BOR<br>NUM      | ing<br>Ber: M | <b>H-</b> 3           | ङ्गाइश्व                      | 2                  | OF                      | -  |  |
|----------------------------|---------------|-----------------|----------------------|------------------|--|---------------------------------|--------------------------------------|-------------------------|-----------------|---------------|-----------------------|-------------------------------|--------------------|-------------------------|----|--|
| 2<br>Q                     | 2315<br>11 11 | Rente<br>Val    | cod Ro<br>ley, c     | ation<br>ad<br>X |  |                                 | CONTRAC                              | itik:<br>West Haza      | at Dr           | illing        | TRUTH<br>MEDHO        |                               | H.8.,              | N.                      |    |  |
|                            |               |                 |                      |                  |  |                                 | DRULER                               | Gene Rein               | bart            |               | IRITI:<br>RIG:        |                               | Acker              | -                       |    |  |
|                            |               |                 |                      |                  |  |                                 | START:                               | 1140/03-2               | 691             |               | COMPLETED: 3:00/03-26 |                               |                    |                         |    |  |
| LAND<br>OWNER: Peul Wilson |               |                 |                      |                  |  |                                 | SURFACE<br>ELEVATE                   | M: 157.13               |                 | -             | LOGGE                 | ) BY:                         | Rai I              | iunee                   | η  |  |
|                            |               | CODATE<br>BLION | S INT<br>ANT<br>(ft) | BHUNYS<br>BANNA  | DEPTH<br>SCALE<br>1 - 4'               | REPTH DESCRIPTIONS OF MATERIALS |                                      |                         |                 |               |                       | MENTICE<br>MENTICE<br>MENTICE | Case of the second | 900RA<br>SOVAT<br>KUIZS | LI |  |
| a                          | 막독            | 꽣왢              | 25.0-<br>26.5        | 9*               | 25<br>26                               | - 9<br>- 4                      | -<br>TAYIN BA<br>Milling gan<br>(SC) | D) clive-<br>tined sent | beown<br>, sati | instad        |                       |                               |                    |                         |    |  |
|                            |               | 0"              |                      |                  | 27 - <del>1</del><br>28 - <del>-</del> | -                               | -                                    |                         |                 |               |                       |                               |                    |                         |    |  |
| œٳ                         | NH<br>3-<br>6 | ¶″₹             | 30.0-<br>31.5        | 6=               | 29                                     | -                               |                                      |                         |                 | Ļ             | 0                     |                               |                    |                         |    |  |
| Ì                          | •             | 6 <sup>90</sup> |                      |                  | 32                                     | -<br>                           | hta? Don                             | n 31.5 fe               |                 |               |                       |                               | l I                |                         |    |  |
|                            |               |                 |                      |                  | 33                                     | _ `                             |                                      |                         |                 |               |                       |                               |                    |                         |    |  |
| •                          |               |                 |                      |                  | 34 -                                   |                                 |                                      |                         |                 |               |                       |                               |                    |                         |    |  |
|                            |               | 1               |                      |                  | 35                                     | _                               |                                      |                         |                 | -             |                       |                               |                    |                         |    |  |
|                            |               | 1               |                      |                  | 36-                                    | _                               |                                      |                         |                 | . –           |                       |                               |                    |                         |    |  |
| ļ                          |               | ī               |                      |                  | 37 -                                   | -                               |                                      |                         |                 | -             |                       |                               |                    |                         |    |  |
| ļ                          |               |                 |                      |                  | _ 38 <del>_</del>                      | _                               |                                      |                         |                 | -             |                       |                               | l                  |                         |    |  |
|                            |               |                 | :                    |                  | 39-∄                                   | -                               |                                      |                         |                 |               | l                     |                               |                    |                         |    |  |
|                            |               |                 |                      |                  | 40-                                    | _                               |                                      |                         |                 | Ţ             | 1                     | i                             | ľ                  |                         |    |  |
| ł                          |               |                 |                      |                  | 41-4                                   | -                               |                                      |                         | •               |               |                       |                               |                    |                         |    |  |
|                            |               |                 |                      |                  | 42 <del>+</del>                        | -                               |                                      |                         |                 |               | •                     |                               |                    |                         |    |  |
|                            |               |                 |                      |                  | 43 <del> </del>                        | -                               |                                      |                         |                 | 4             |                       |                               |                    |                         |    |  |
|                            | ſ             |                 |                      | (                | 44+                                    | _                               |                                      |                         |                 | -1            |                       |                               | 1                  |                         |    |  |
|                            | Ì             |                 |                      |                  | 46-                                    | _                               |                                      |                         |                 |               |                       |                               |                    |                         |    |  |
|                            |               |                 |                      |                  | 47                                     | _                               |                                      |                         |                 | لىل           |                       |                               |                    |                         |    |  |
| _ 1                        | WEX           |                 | EVEL D               | nda              | . (BO)                                 | OGTS                            |                                      |                         |                 |               |                       |                               | _                  |                         | -  |  |
| TA1                        |               | ( 03-2          |                      | T                | -                                      |                                 |                                      |                         |                 |               |                       |                               |                    |                         |    |  |
| тп                         | œ             | 6:2             | •                    |                  | -                                      |                                 |                                      |                         |                 |               |                       |                               |                    |                         |    |  |
| GW                         | _             | 21.0            | _                    |                  | BIGNA<br>Hal B                         |                                 |                                      | ].                      | . •             |               |                       | <u>,</u>                      |                    |                         |    |  |
| CM<br>CM                   |               | 30              | •                    |                  | TYPED                                  | _                               |                                      |                         |                 |               |                       |                               |                    |                         |    |  |

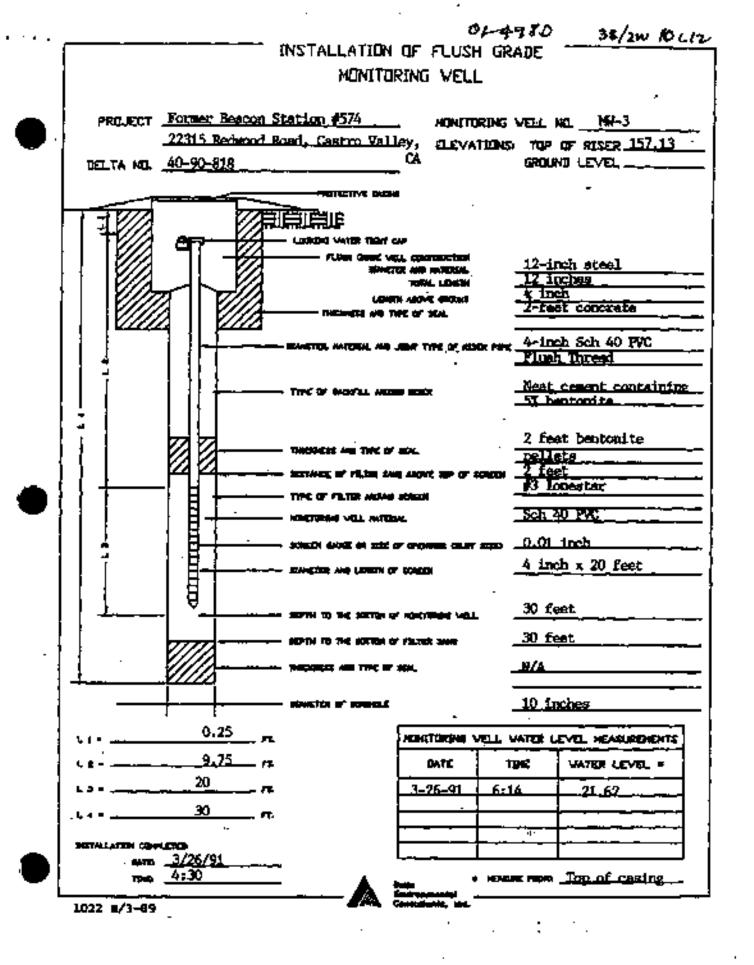
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#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

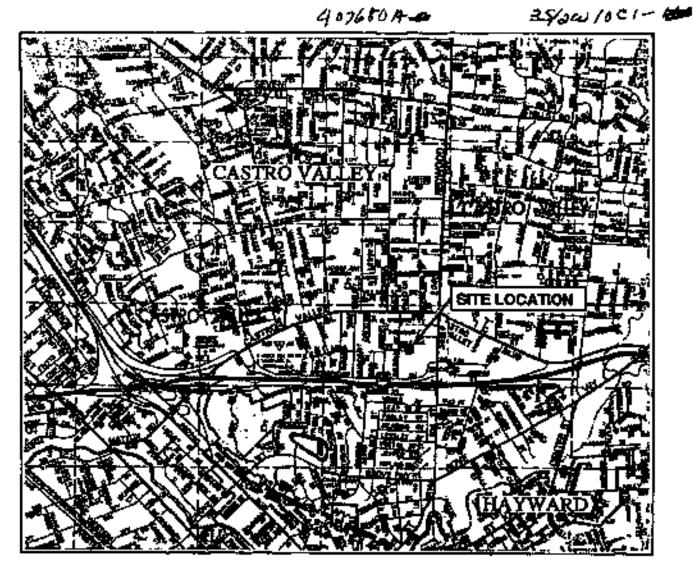
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

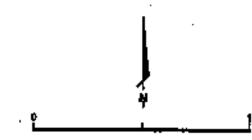
#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



#### HOTE:

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Scale in Miles

#### LOCATION MAP

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

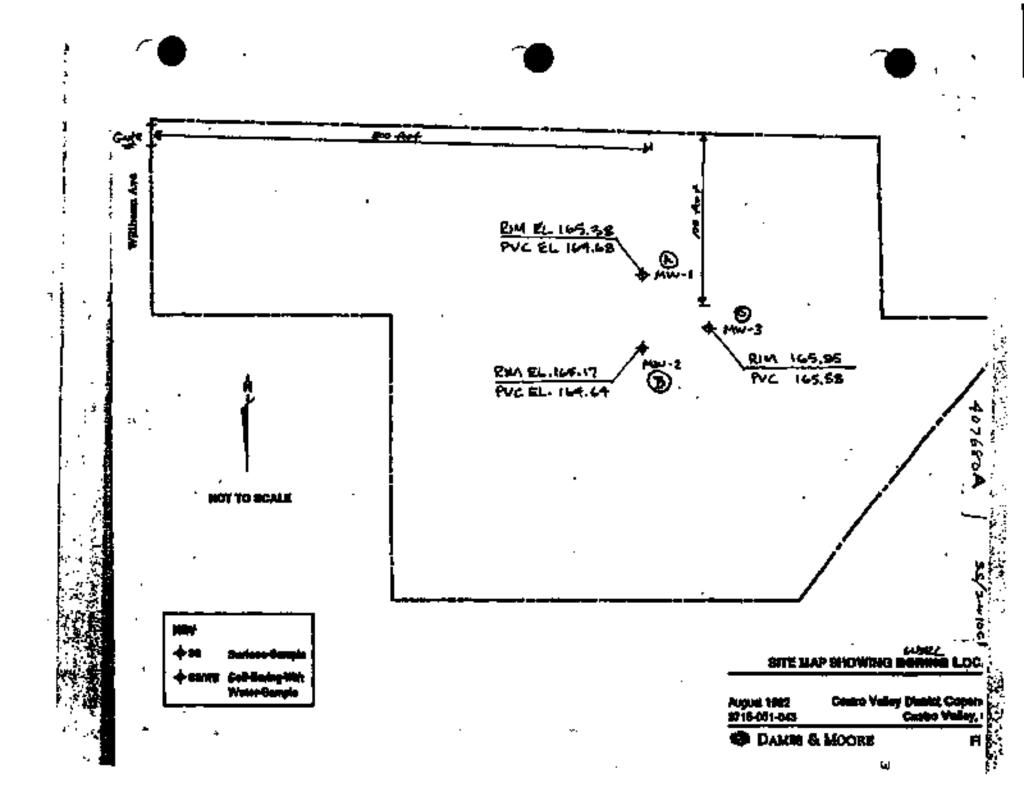
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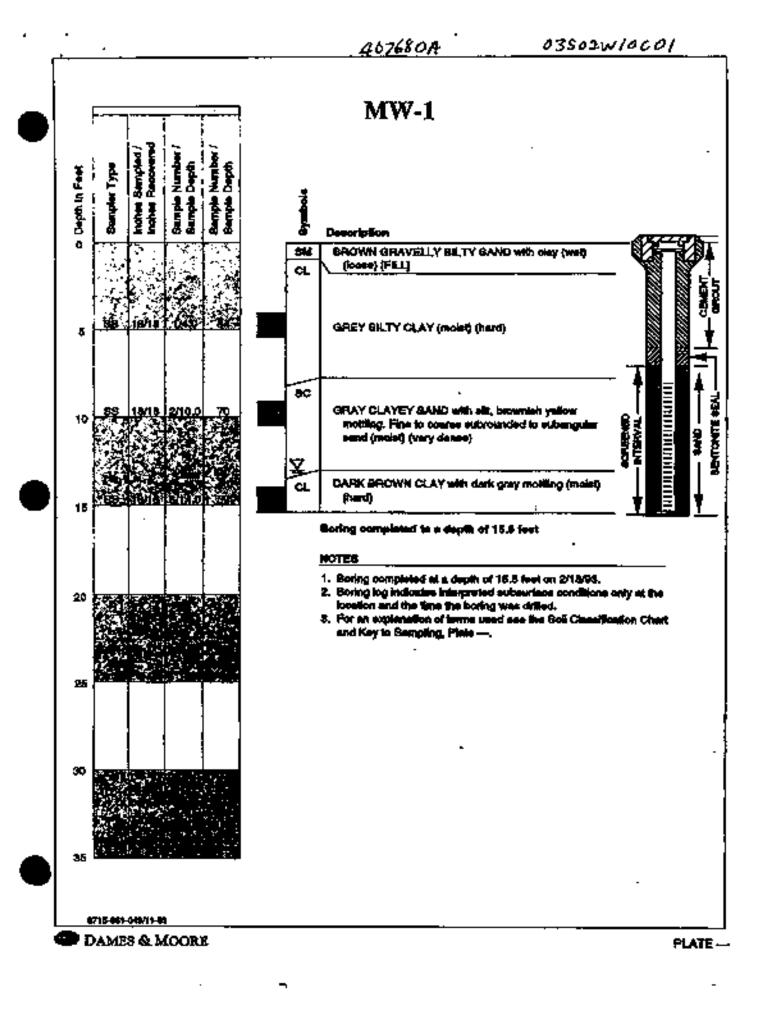
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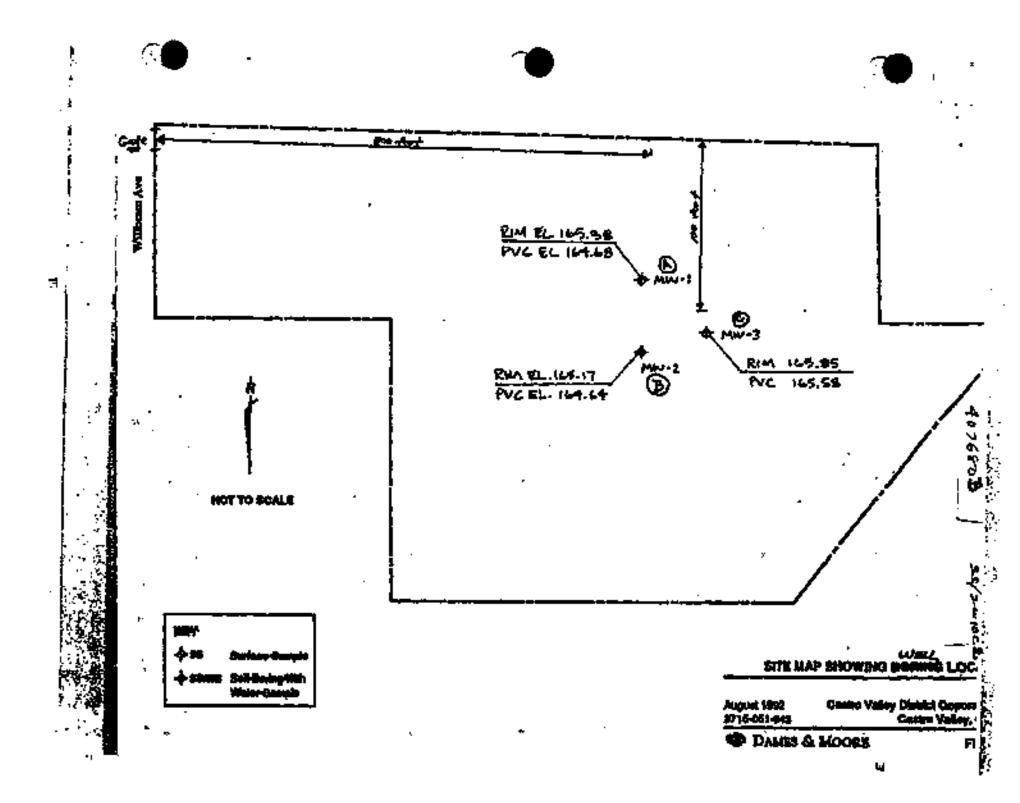
FIGURE 1

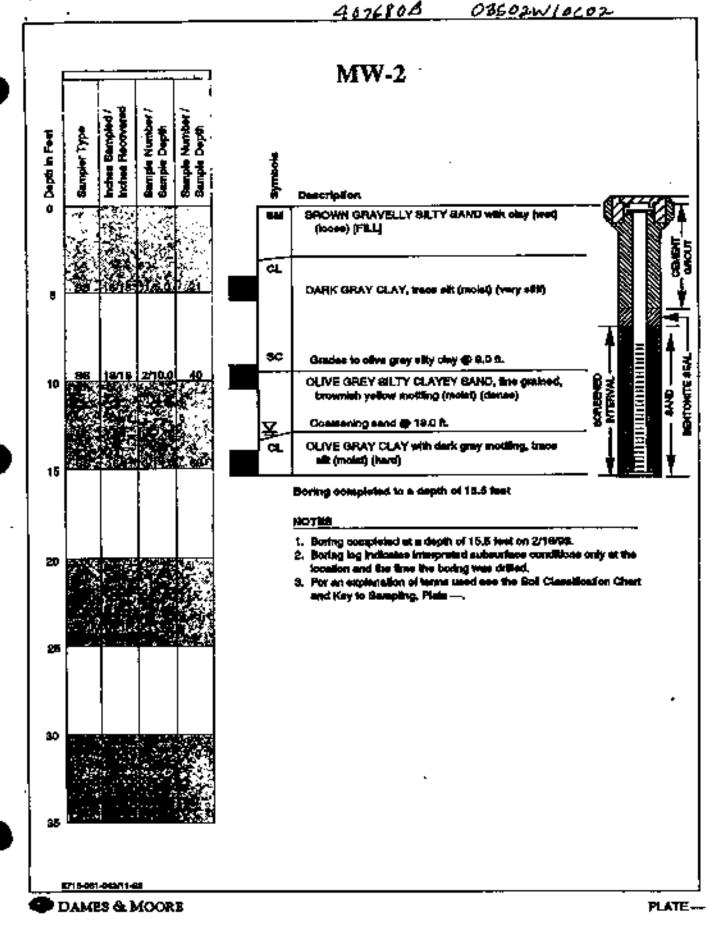
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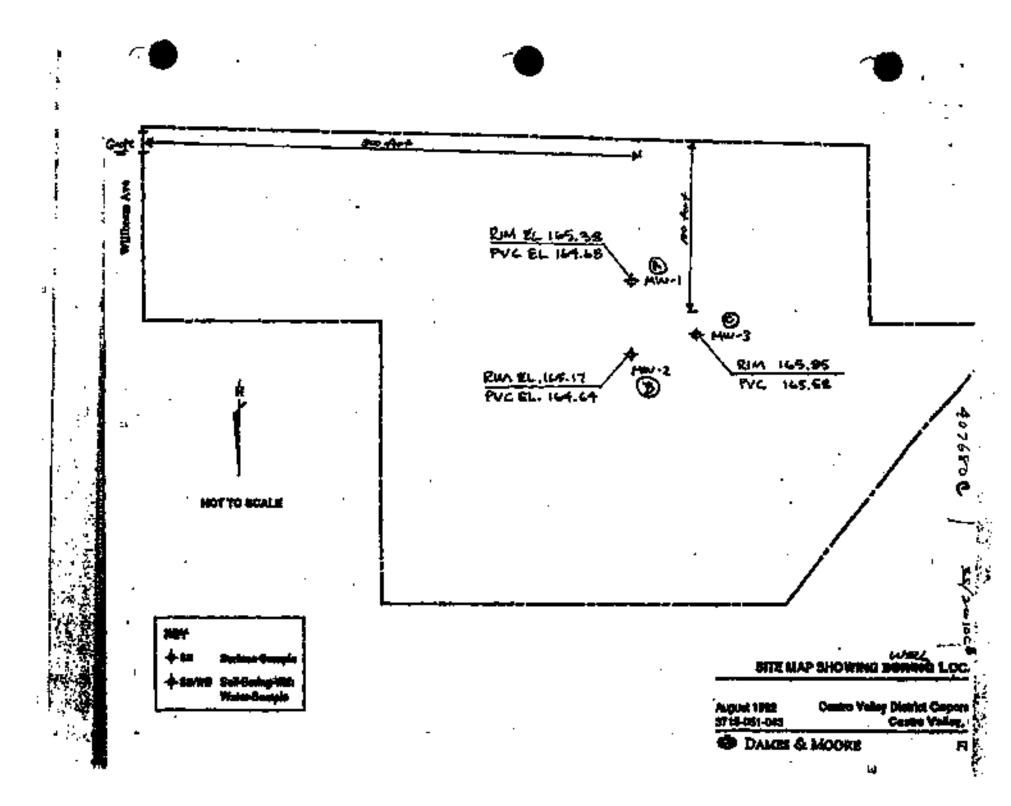
#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

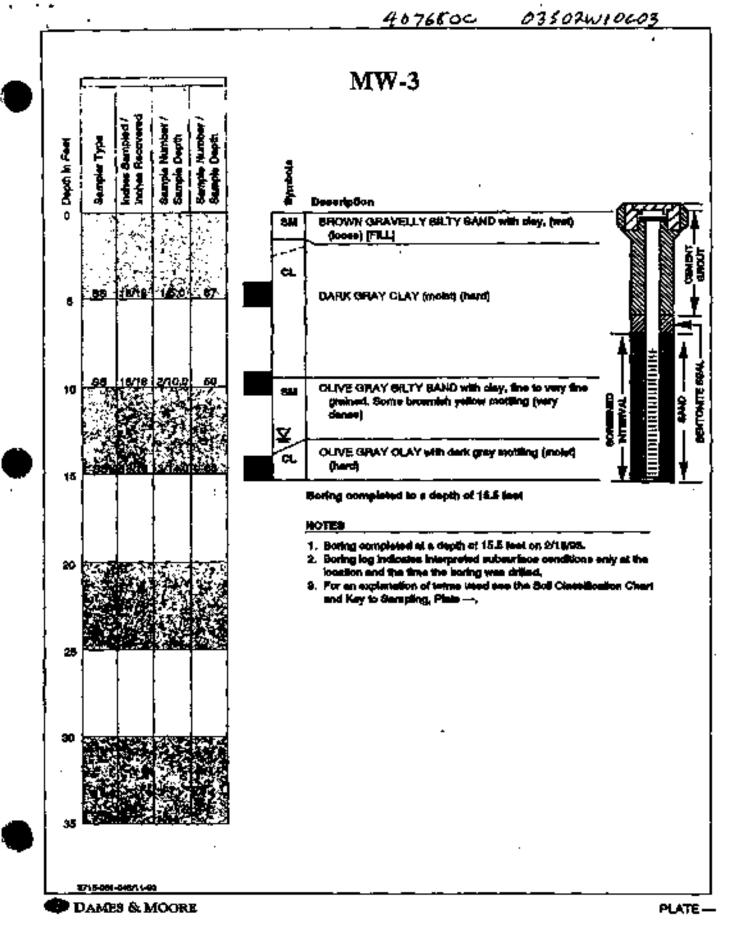




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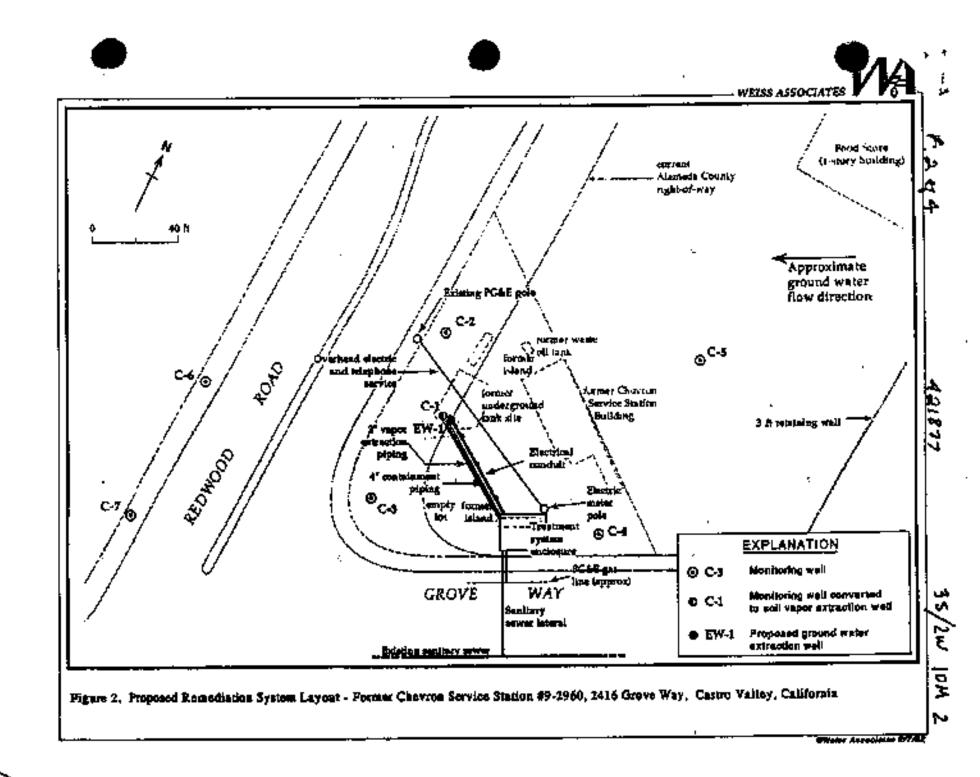
#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)





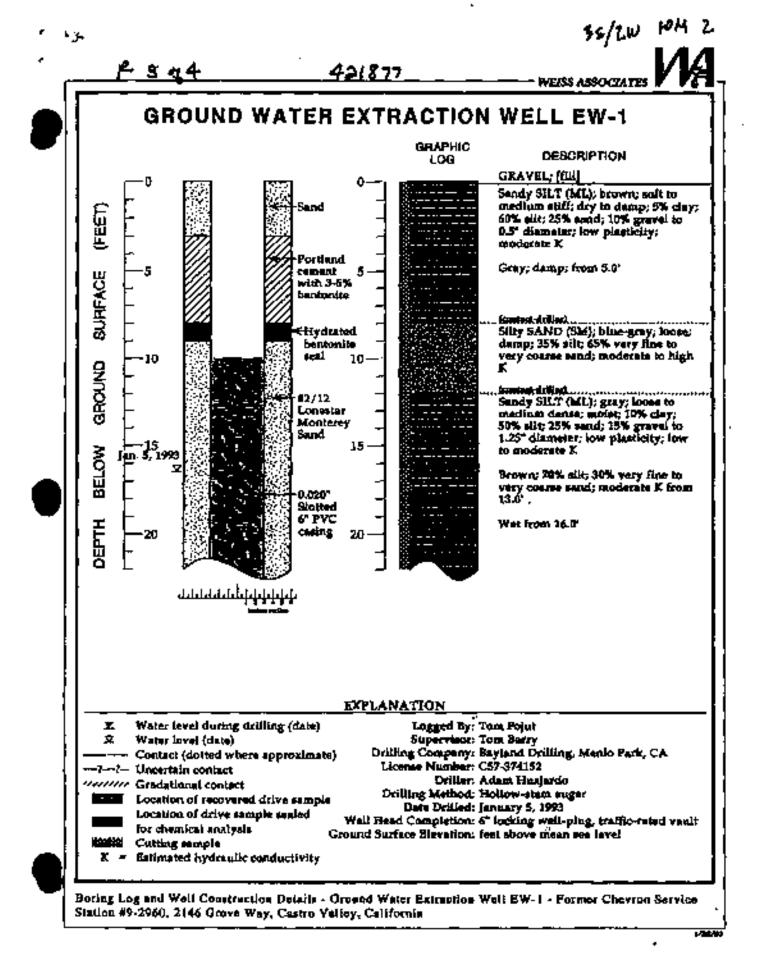
n

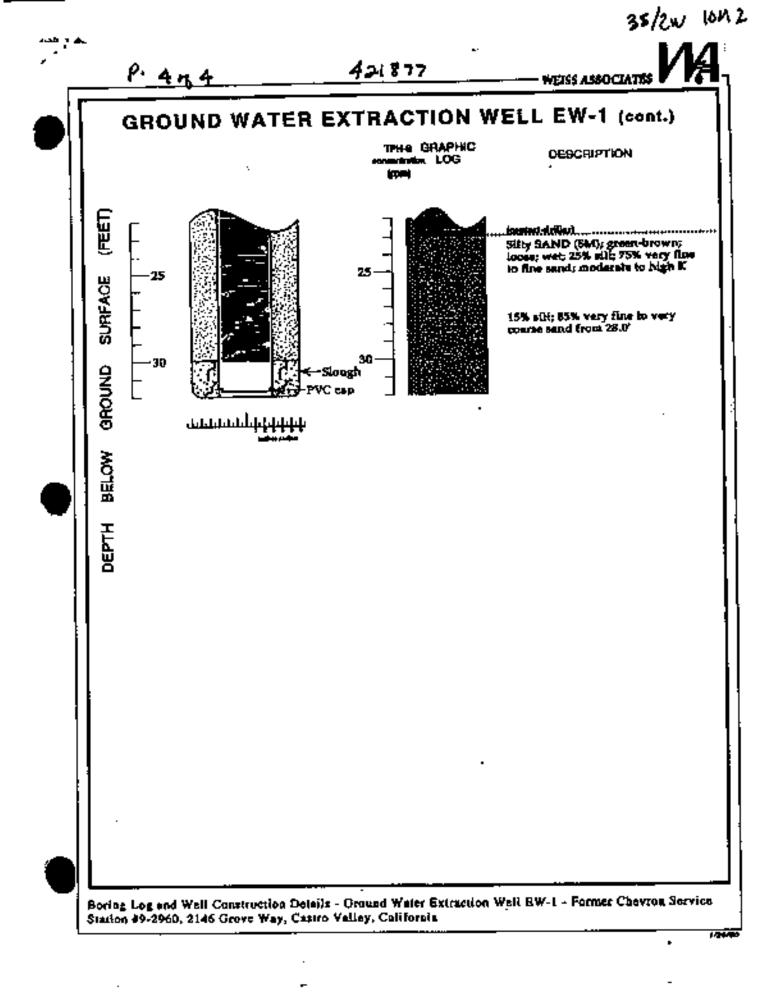
#### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



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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><br>ion | <u>Totald</u><br>epth | <u>Water</u><br>depth | <u>Diam</u><br><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<br>3S/2W | 10P 2<br>10M 3 | ہ<br>1768 Knox St                                    | E. KOOS<br>John Higginbotham                   | 8/3/1984<br>12/4/1997   | 122073861<br>122076124 |          | 3S/2W 10P<br>3S/2W 10M | ?<br>1/94        | 0<br>0               | 73<br>50              | 0<br>22               |                            | IRR<br>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<br>3S/2W | 3Q 3<br>3R 1   | 20283 YEANDLE AVE<br>20287 MARSHAL ST                | ROBERT ROUSEY<br>MR. ORNELAS                   | 8/2/1984<br>8/2/1984    | 122069947<br>122065101 |          | 3S/2W 3Q<br>3S/2W 3R   | 5/77<br>Dec-77   | 0<br>0               | 28<br>61              | 18<br>21              |                            | IRR<br>IRR  |
| 35/2W          | 3P             | 20405 Redwood Rd                                     | Robert T. Nahus                                | 8/1/1991                | 122003101              |          | 3S/2W 3R<br>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<br>3S/2W | 3P 9<br>3Q 4   | 20629 Redwood Rd<br>20680 FOREST AV                  | R. T. Nahas Co. MW-7<br>G.G. PAUL KASMER       | 9/21/1992<br>1/18/1985  | 122072914<br>122067700 |          | 3S/2W 3P<br>3S/2W 3Q   | 4/92<br>Oct-73   | 187<br>0             | 31<br>20              | 15<br>0               |                            | MON<br>DES  |
| 35/2W<br>35/2W | 30 4<br>10C 1  | 21000 Wilbeam Ave.                                   | BART MW-1                                      | 7/15/1983               | 122087700              |          | 3S/2W 3Q<br>3S/2W 10C  | 2/93             | 0                    | 20<br>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<br>3S/2W | 10L11<br>10L12 | 22315 Redwood Rd<br>22315 Redwood Rd                 | Former Beacon Station<br>Former Beacon Station | 7/31/1991<br>7/31/1991  | 122072700<br>122072700 |          | 3S/2W 10L<br>3S/2W 10L | 4/91<br>3/91     | 0<br>157             | 0<br>30               | 0<br>22               |                            | BOR*<br>MON |
| 35/2W          | 10L12<br>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<br>3S/2W | 10L 9<br>10G 1 | 2416 Grove Way<br>2633 VEGAS AV                      | Chevron<br>ANNA WEEDEN                         | 3/28/1991               | 122071784<br>122070587 |          | 3S/2W 10L<br>3S/2W 10G | 8/90<br>4/77     | 0<br>0               | 30<br>24              | 18<br>7               |                            | MON         |
| 35/2W<br>35/2W | 3N 1           | 3098 CASTRO VALLEY BLV                               |  | 12/18/1984<br>11/6/1989 | 122070587              |          | 35/2W 10G<br>35/2W 3N  | 4/77<br>Aug-89   | 0                    | 24<br>30              | ,<br>19               |                            | IRR<br>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<br>3S/2W | 3N 8<br>3P18   | 3234 Castro Valley Blvd<br>3369 Castro Valley Blvd   | Mitzi Stockel<br>Chevron USA                   | 7/30/1990<br>8/21/1997  | 122078169              |          | 3S/2W 3N               | May-90           | 0<br>0               | 20<br>20              | 0<br>0                |                            | MON         |
| 35/2W<br>35/2W | 3P18<br>3P19   | 3369 Castro Valley Blvd                              | Chevron USA                                    | 8/21/1997<br>8/21/1997  | 122075857<br>122075857 |          | 3S/2W 3P<br>3S/2W 3P   | Oct-93<br>Oct-93 | 0                    | 20<br>20              | 0                     |                            | MON<br>MON  |
| 35/2W          | 3P20           | 3369 Castro Valley Blvd                              | Chevron USA                                    | 8/21/1997               | 122075857              |          | 35/2W 3F<br>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<br>BOD* |
| 3S/2W<br>3S/2W | 3P<br>3P 2     | 3495 Castro Valley Blvd.<br>3495 Castro Valley Blvd. | Ted Simas<br>Ted Simas                         | 6/4/1990<br>6/4/1990    | 122072910<br>122072910 |          | 3S/2W 3P<br>3S/2W 3P   | 2/90<br>2/90     | 0<br>176             | 0<br>18               | 0<br>15               |                            | BOR*        |
| 35/2W<br>35/2W | 3P 2<br>3P 3   | 3495 Castro Valley Blvd.                             | Ted Simas                                      | 6/4/1990                | 122072910              |          | 35/2W 3P<br>35/2W 3P   | 2/90<br>2/90     | 176                  | 18                    | 15                    |                            | MON<br>MON  |
| 35/2W<br>35/2W | 3P23           | 3519 Castro Valley Blvd.                             | PB Oil Company                                 | 2/17/1990               | 122072910              |          | 3S/2W 3P               | 2/90<br>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<br>ion | Totald<br>epth | Water<br>depth | <u>Diam</u><br>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

